Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

Volume 139
Number 6

SINCE 1871

February 10, 1941

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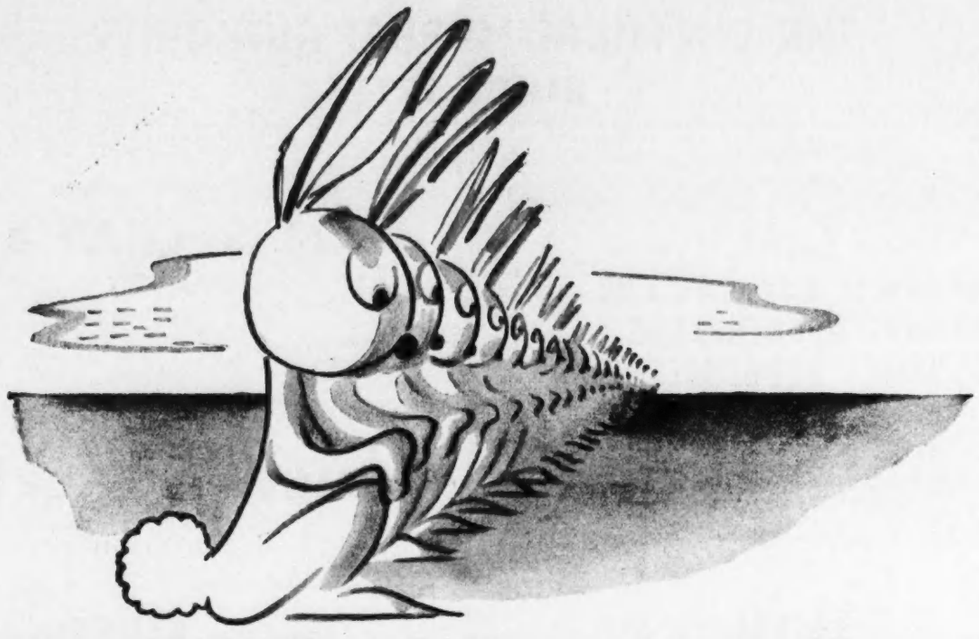

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Volume 139 | February 10, 1941 | Number 6

Reporter's Nationwide Business Survey Shows 1940 Was a Good Chemical Year

Industrial Group Set Pace in Workers and Pay and Output but Fell Short in Value of Sales—Prices Pushed Up by Short Supplies

General business relativities got further out of normal pattern during the last quarter of 1940 because an abnormally increased and increasing proportion of business activity was being devoted to the production of capital goods or to contributions to the national defense which naturally did not pass through the ordinary channels of distribution. That was one reason why manufacturers' sales were 60 percent farther ahead of 1939 than retail sales were—another reason was that retail price advancing was being better restrained. Wholesalers occupied a middle ground, the aggregate value of their sales being affected one way by the first-mentioned condition and in reverse by the upward price movement in certain places.

The preceding quarter's ratio of increase was closely maintained in manufacturing and in retailing. Wholesaling moved from last place to a good second to manufacturing. Because wholesalers' inventories showed a relative decline during the quarter, it must be assumed that retailers had noticeably increased their inventories—the relative lowness of retail prices would not account for all the lesser gain in sales. At that, the general retail trade during the holiday season was the biggest in a decade, a natural concomitant of the increased earnings of the buying public. So, price levels had much to do with the matter—how much by reason of the consumer activity in the defense board can only be conjectured, but must be considered.

Foreign trade continued to be more a matter of expediency than of a developed purpose. There was reluctance on the part of customary importers to turn to the study of sources in new lands. There was hesitancy on the part of potential importers to go into markets of which they were inadequately informed both as to sources and as to outlets. There also was the tendency of suppliers of wanted materials in Latin America to place a higher value on their stuff even though their markets had been greatly narrowed. There are politico-economic conditions which preclude the welcome acceptance of the United States as a seller in Latin America and even militate against this country's getting any bargains as a buyer in that region. Foreign trade was growing better on the export side, but the measurement being value rather than volume, it cannot be concluded whether foreign markets were expanding or were being exploited. If it is desired that this nation have a larger part in world trade, somebody must study, interpret, and disseminate the interrelations of value and volume in both exports and imports, because for every dollar, or peso, or whatever conceded in "dumping" there is a fairly close number of cents or centavos in the excess of export prices over those of home markets.

Prices on the whole were but little higher at the last end of 1940 than they had been at the first; so that the gain in individual incomes had an almost net purchasing power. The endeavor of business leaders, as well as economists and other advisers, to present the unwisdom of price inflation apparently was bearing fruit. Increases in production payrolls and individual weekly earnings had not yet reached a proportion that would so boost costs that selling prices would have to be advanced.

In comparison with the general business picture in the last quarter of 1940, trends in the chemical, oil, and drug industries as portrayed by data contributated to the REPORTER'S nation-wide survey were somewhat mixed. Production showed double the general gain over 1939; sales value gained only 38 percent as much, although the price advance was 16½ times as large as that in the general field. Exports of chemicals, oils, and drugs during last year were off 10.5 percent from 1939, largely petroleum products and other oils and fats, and drugs; general exports increased 26 percent in spite of curtailed markets for customarily heavy commodities—cotton, for example, and foodstuffs. Imports of chemicals, oils, and drugs were up more than 12 percent for the year, gaining a little more than imports as a whole; increases were mainly in drugs, petroleum products, and minerals.

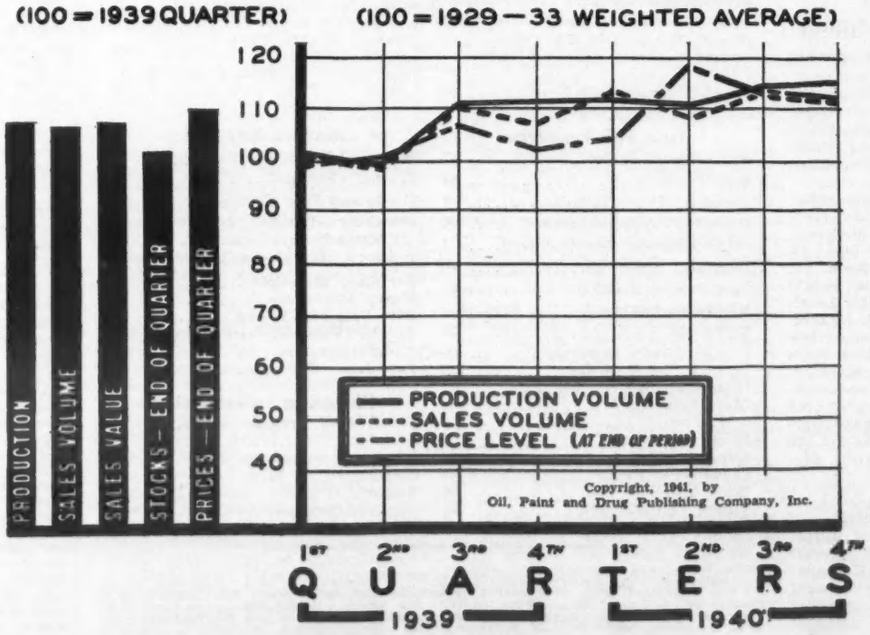
—*Turn to page 28*

Chemicals, Oils, Drugs

Conditions: 4th Quarter and Year, 1940

(100 = Corresponding period in 1939)

Production, year	108.4
Fourth quarter	104.1
Employment (fourth quarter)	102.3
Factory payrolls (fourth quarter)	106.1
Sales volume, year	108.0
Fourth quarter	108.7
Sales value, year	108.7
Fourth quarter	102.6
Stocks on hand (December 31)	102.1
Prices (December 31)	109.9
Exports (1940—$625,925,979))	89.4
Imports (1940—$356,572,682)	112.1
Credit conditions	Slightly better
Outlook	Brighter



Closing Markets

Soda Phosphate Advanced

A prominent producer advanced prices for crystal di and tri soda phosphate 10c. per 100 pounds, making car lots, works, bags, $2.20 and $2.35 per 100 pounds, respectively. The anhydrous dibasic was 25c. higher at $5.40 for car lots in bags and $5.60 in barrels at the works. All prices apply for the territory east of the Rockies.

Cottonseed Oil Steady

A steady tone prevailed in the market for refined cottonseed oil futures on Friday. Offerings of contracts were light and price changes narrow. Final quotations showed a small net advance for the week. Crude oil was quiet and steady. Soybean and lard futures were somewhat firmer on the Chicago market. Miscellaneous oils, fats and greases ruled steady.

Commerce Bureau Names Barber Drug Div. Head

OPD Washington Bureau
February 5, 1941

Lester A. Barber has been appointed head of the drug and allied products section of the chemical division of the Bureau of Foreign and Domestic Commerce of the Department of Commerce, succeeding E. A. Chapman, now industrial editor of *Foreign Commerce Weekly*.

Mr. Barber is a gradute of Columbia University and of its New York College of Pharmacy, and served as a lieutenant during the World War. Since then he has been in the crude drug and essential oil business in New York, having been with American Trading Company, World Wide Trading Company, Morana, Inc., Marinello Company, Ungerar & Co., and his own business as sales representative for several firms dealing in crude drugs, essential oils, and kindred products.

Appointment of James H. Edwards as chief of the division of international economy, and of Robert F. Martin as chief of the division of industrial economy of the Department of Commerce, was announced today by Secretary of Commerce Jesse Jones.

W.L. Austin Retires From Census Bureau

OPD Washington Bureau
February 4, 1941

William L. Austin today retired as director of the Census Bureau. Dr. Vergil D. Reed, who has been assistant director for several years, has been named acting director, pending the appointment of a successor to Mr. Austin. Mr. Austin was seventy years old on January 25.

The retiring director was appointed clerk in the Census Bureau in 1900. He became chief clerk in 1913 and was named chief statistician for agriculture four years later. He became assistant director shortly afterwards and was named head of the bureau in 1933.

N.Y. Fair Trade Act Amendments Introduced

Albany, Feb. 6, 1941

Exhaustive amendments to the Feld-Crawford fair trade act of 1935, for the protection of the resale price of trademarked articles are embodied in a bill introduced in the senate by Carl Pack, Democrat, of the Bronx, and referred to general laws committee.

The bill provides, among other things, that whenever the vendor shall stipulate a resale price, or a change therein, he shall file a notice with the Secretary of State setting forth the commodity covered and the resale price so stipulated, and also forthwith give notice thereof, by mail, to each vendee in the State to whom he has sold the commodity, and place upon the commodity, or upon a label attached thereto, or upon the container words, "Price fixed by manufacturer thereof, indelible printed figures stating the stipulated resale price and the under Feld-Crawford law."

Aluminum Co. Buys American Magnesium Corp.

The Aluminum Company of America has purchased the half interest in the American Magnesium Corporation formerly owned by the General Aniline & Film Corporation, thereby making American Magnesium a wholly owned subsidiary.

Chemical Markets Weaker

Aside from reductions in corn derivatives, price changes in the markets for heavy and fine chemicals last week were of relatively narrow interest. Most of them were on the down side.

The movement of goods continued heavy on contracts and light otherwise. Seasonal quiet spots were undisturbed. Defense priorities became more potential. Export control was extended but did not curtail trading.

Prices were advanced on dehydrated castor oil, Chinese menthol, cocoa butter, and hoofmeal at Chicago.

Prices were reduced on corn syrup, tanner's corn sugar, corn dextrin, cornstarch, mannitol, Aleppo nutgalls, medium colors of gum rosin, gum and steam-distilled wood turpentines, feeding tankage here, and cottonseed meal in the Southeast.

The REPORTER'S composite index number of prices for heavy and fine chemicals stayed at 131.4 (100=average at August 1, 1914). In comparison with average prices in 1926 (as 100), the REPORTER'S index number is now 93.0, compared with 91.3 at this time last year and 88.9 in 1939.

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Export Control Office Is Opened in New York

OPD Washington Bureau
February 5, 1941

A New York office of the Division of Controls has been opened under the supervision of Lieutenant Commander Earl E. Hintze, U.S.N. This office, located at 90 Church street, will serve as a source of information to manufacturers and exporters and it will also collect and transmit pertinent information to Col. R. L. Maxwell, administrator of Export Control. Applications for export licenses will continue to be filed with the Division of Controls, Department of State, Washington.

Uranium, Oil Equipment On Export Ban List

OPD Washington Bureau
February 6, 1941

Well and refining machinery, radium, and uranium have been added to the list of commodities which may not be exported without a license, under presidential proclamation issued this week.

The Office of Export Control today issued regulations defining these commodities as including petroleum and gas well equipment and parts, including well drilling machinery and parts; petroleum refining machinery, equipment and parts; radium metal and salts and compounds; uranium metal, salts and compounds, and minerals. The order becomes effective February 10. The export of steel oil drums has been subject to export licensing control as of February 15.

Defense Contract Service Is Expanded by OPM

OPD Washington Bureau
February 5, 1941

The Office of Production Management today announced transfer and expansion of the Office of Small Business Activities and addition of personnel to its thirty-six field offices. This unit will be known hereafter as Defense Contract Service.

For administrative purposes the Office of Small Business Activities is being transferred from the division of purchases to the division of production with the approval of the Office of Production Management.

The Defense Contract Service will be headed by Robert L. Mehornay. For the past three months he has been directing the Office of Small Business Activities under Donald M. Nelson, who is now director of the division of purchases. Mr. Mehornay is on leave from his position as president of the North-Mehornay Companies, Kansas City, Mo.

The Federal Reserve System, under the direction of Governor Ernest G. Draper, member of the board of governors, will provide the nucleus of personnel for regional offices. Senior officers in each of the twelve Federal Reserve banks and their twenty-four branches have been serving as field agents.

'Cold' Preparations Must Carry Drug Law Labels

Formal notice has been sent by the Food and Drug Administration to manufacturers of preparations for colds that labels must reveal the effects and limitations of the preparations. The notice in part follows:—

The food, drug, and cosmetic act only recently became fully effective. One of its provisions, section 201 (n), is particularly applicable to those preparations which bear labeling dealing with the symptoms of colds. This section requires that the labeling reveal any facts which are material in the light of such affirmative representations as the label may make. Under this provision it is the opinion of the administration that any reference to colds in the labeling of drugs should clearly indicate just what the effects of medicine with respect to this diseased condition will be and, if necessary to avoid misunderstanding, just what the limitations of the medication are.

F.W.D.A. Holds Clinic On Merchandising Practices

The joint feature of this year's mid-winter meeting of the Federal Wholesale Druggists Association was a clinic on merchandising—the joint features comprise the manufacturing, as well as the wholesaling members. This year's feature was exceptionally good, even though there was less argument than usual.

S. C. James, president of the association, opened the joint session, but his officiating was mainly in the wholesalers' business sessions. The officer of the clinic was William D. Barry, of Mallinckrodt Chemical Works, chairman of the associate, or manufacturing members. He had the assistance as supervisors of floor discussions of Kenneth A. Bonham, of *American Druggist*, and Hugh Craig, of OIL, PAINT AND DRUG REPORTER.

The relation of defense spending to public purchasing power and the results in terms of retail distribution were discussed by Dr. Nathaniel H. Engle, adviser on distribution, consumers' division, Advisory Commission to Council of National Defense. The influence of changing buying habits on the pattern of distribution was examined by Dr. Engle, and he concluded that increased earning capacity would be of greater benefit to independent retailers in the middle class than to low-price stores or the big chains or selective stores.

What develops, he argued, would depend largely on what business men did, and he urged avoidance of price inflation, advising each distributor to look out for his own behavior and to have due regard for the disastrous re-

—Continued on page 64

Durrett Becomes F.T.C. Medical Adviser

OPD Washington Bureau
February 6, 1941

Dr. J. J. Durrett has resigned as principal technical adviser to the Food and Drug Administration to become medical adviser to the Federal Trade Commission.

For the Food and Drug Administration, Dr. Durrett has handled applications for new drugs under section 505 of the food, drug, and cosmetic act. This work is now being handled by the drug division of the administration, which is in charge of Dr. Robert T. Herwick and Fred Irish, both of whom have been in the Food and Drug Administration for some time.

With reference to Dr. Durrett's changing of positions, Dr. Frederick J. Cullen, executive vice-president of the Proprietary Association, formerly a member of the F.D.A. staff, says:—

In selecting Dr. J. J. Durrett to head the medical staff of the Federal Trade Commission, the Commission has selected a man who has had a wide experience. He was for several years associated with one of the large manufacturers of medicines. It is true that most of this manufacturer's products are used by or on the prescription of a physician. Still, a number of their preparations are sold direct to the layman, so that Dr. Durrett should have information concerning the numerous problems confronting the manufacturer.

Dr. Durrett is well informed concerning the provisions of the Federal food, drug, and cosmetic act. He is likewise familiar with the legislative history leading up to the enactment of the food, drug, and cosmetic act and the Wheeler-Lea amendments to the Federal Trade Commission act, and also with the fact that Congress, when enacting these laws made it clear that they were not intended in any way to prohibit self-med-

—Continued on page 40

Drug Wage Hearing Set for March 10

OPD Washington Bureau
February 6, 1941

Public hearing on the minimum wage recommendation for the drug, medicine and toilet preparations industry has been scheduled for March 10 by the Wage and Hour Division of the Department of Labor. The hearing will be in room 3229 of the Labor Department Building, Washington, presided over by Henry T. Hunt, hearing examiner. Interested parties should give notice of intention to appear by March 3.

Mallinckrodt Elects Boylston President

Arthur C. Boylston, vice-president and general manager since 1925, has been elected president of the Mallinckrodt Chemical Works, St. Louis,

A. C. Boylston

filling the post vacated by the death of Oscar L. Biebinger.

Dr. F. W. Russe, who will retain his posiiton as secretary of the company, has also been elected a vice-president. M. A. Frohock, in addition

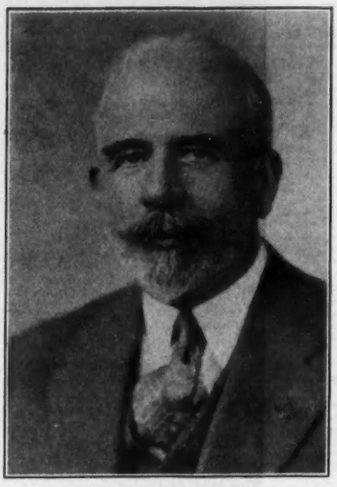
—Continued on page 53

Howe, Watson, Trigg to Handle Chemical Priorities in Defense

OPD Washington Bureau
February 6, 1941

Organization machinery has been completed by the Office of Production Management to issue priority orders for the fulfillment of national defense contracts whenever and wherever supplies of materials and equipment threaten to become scarce or are being diverted to nondefense uses.

It is pointed out by all the officials of the priorities organization, however, that the act of setting up machinery to handle this problem does not mean that priority orders are to be put into general use in the near future. They declare that priority orders are virtually a last resort in getting right of way for defense production, and that they probably will not be necessary for the vast majority of items needed by the army and navy. At present priority orders have been issued only in connection with certain critical army and navy supplies and such articles as aircraft and machine tools.



Dr. H. E. Howe

The director of the Priorities Division of OPM is E. R. Stettinius, jr., formerly a member of the Advisory Commission to the Council of National Defense. The division is divided into five sections dealing with (1) minerals

—Continued on page 36

Magnesium Trust Charges Denied

Five corporations and seven individuals entered pleas of not guilty before Federal Judge Coxe here February 6 on indictment, alleging the violating of the Sherman antitrust laws through controlling and restricting the magnesium industry in this country. Judge Coxe released the defendants in $1,000 each, and set April 7 as the date for filing of demurrers to the indictment.

The indictment, handed up January 30, contended that the five American corporations had conspired with the I. F. G. Farbenindustrie to control and restrict the sale of magnesium. The German organization and two members of the management board, who were also indicted, were not represented in court. If the corporation's representatives fail to reply to the charges, it was indicated that the court may enter a plea of not guilty.

Those who denied the charges were Arthur V. Davis and Roy A. Hunt and the Aluminum Company of America, of which they are respectively chairman and president; Irving W. Wilson and the American Magnesium Corporation, of which he is president; Willard D. Keith, Karl Hochswender, and the Magnesium Development Corporation, of which they are respectively director and president; the Dow Chemical Company and Willard H. Dow, president, and Earl Bennet, vice-president, and the General Aniline & Film Corporation.

A.M.A. Antitrust Reply Calls Group Idea Faulty

OPD Washington Bureau
February 6, 1941

That medical cooperatives, such as the Group Health Association, were uneconomically unsound and unable to provide patients with care they promised was charged by the American Medical Association, at the outset of its defense to a suit brought by the Department of Justice against the association, three of its constituent societies, five officers, and fifteen local doctors on charges of violating the Sherman antitrust act by coercing a local medical cooperative.

After the careful selection of the jury, the prosecution delivered a lengthy preliminary statement. The government declared it will prove within the course of the trial that the defendants were guilty of restraint of trade by boycotting the Group Health Association, a health insurance group operated by government employees, hampering twelve private Washington hospitals, who wanted to treat GHA patients, and disciplining a number of doctors who were connected with the GHA.

Answering the charges, the defense denounced the GHA as "an entering wedge into State-controlled medicine," claimed that the group was economically unsound, unethical, and illegal, and hinted that this was a "government attempt to destroy the private practice of medicine."

DCAT Dinner Speaker Is Paul V. McNutt

Paul V. McNutt, Federal Security Administrator, will deliver the main address at the sixteenth annual banquet of the Drug, Chemical and Allied Trades Section of the New York Board of Trades, to be held in the Hotel Waldorf-Astoria on March 13. Reservations for the banquet are in charge of John C. Ostrom, secretary of the section, 41 Park Row.

New Solvents as Factors In Industrial Chemical Progress

By C. L. Gabriel
Commercial Solvents Corporation

Contribution to symposium on "Newer Developments in Chemistry and Chemical Engineering" at the National Chemical Exposition, Chicago, December, 1940.

In general the term, "solvent," will be construed to mean a liquid product which will dissolve gases, liquids, or solids without the occurrence of any chemical reaction. For the purpose of this discussion new solvents will be considered to be products developed since 1920, and old solvents which have been produced by new processes since that year will be included. In many instances these new materials are also raw materials for chemical syntheses, so that thought should be given to some of their more important derivatives.

Butyl Alcohol and Acetone

The year 1920 is not arbitarily chosen to distinguish between old and new solvents. In that year the Weizmann fermentation process first was used to produce normal butyl alcohol as the major product and acetone as the secondary material. Butyl alcohol, or butanol, is unquestionably the first new solvent appreciably to influence the normal growth of the chemical industry, and after twenty years developments are still being made which may be blamed on or credited to it. For a considerable period prior to 1920 there had been no outstanding developments in solvents. The chief members of this group in use when that year began were the coaltar solvents, petroleum naphthas, acetone, methanol, ethyl alcohol, carbon tetrachloride, ether, chloroform, and a limited amount of fusel oil and its derivative, amyl acetate.

The Weizmann fermentation process was first operated in England during the World War. Corn was used as the raw material. and by means of a special bacillus the carbohydrate content of the corn mash was converted into acetone and butanol. The process was used for the production of acetone, as this solvent was badly needed for high explosives and airplane dopes. At that time the only other acetone available was made from calcium acetate, which in turn was a product of the destructive distillation of wood. The production of acetone was far below war needs. Therefore in spite of the yield of 2 pounds of butanol for each pound of acetone by the Weizmann fermentation, this relatively inefficient acetone process was put into large-scale use.

As about 10 pounds of solvents were produced per bushel of 56 pounds of corn and as only about 3 pounds of these were acetone, almost 20 pounds of corn had to be transported to England to obtain 1 pound of acetone. Because of the great need for ocean

—Continued on page 46

CARBON TETRACHLORIDE

WHEN YOU WANT IT . . .
AS YOU WANT IT!

We have available Carbon Tetrachloride, 99.99% Pure, in various sized containers and in any quantity you desire from 5-gallon drums to tank cars.

And don't forget John A. Chew's "Highly Personalized Service" on these chemicals . . .

Acid Phosphoric	Calcium Chloride	Potash Carbonate
Acid Muriatic	Carbon Bisulphide	Soda Ash
Acid Sulphuric	Chlorine	Sodium Metasilicate
Acid Nitric	Caustic Potash	Sodium Phosphate (Mono-Di-Tri)
Acid Oxalic	Caustic Soda	Sodium Sulphate Anhydrous
Acid Boric	Glauber's Salt	Sodium Tetra Pyrophosphate
Aluminum Hydrate	Methylene Chloride	Sulphur Chloride
Barium Chloride	Paradichlorobenzene	
Bleaching Powder	Pine Oil	
Borax	Phosphorus	

JOHN A. CHEW
INCORPORATED
60 East 42nd Street, New York Telephone MURRAY HILL 2-0993

RS— Make a note of this for the future— JHT

Miss D— Remind me of this on our next Carbon Tet order— R.D.L.

has revised the suggested warning statements issued to its field chiefs a year ago as guides to what would be acceptable in manufacturers' labels under the food, drug and cosmetic law.

The new suggestions or specimens have been studied by a committee of State drug law enforcement officials (Mattice of New York, Bailey of Connecticut, and Fischelis of New Jersey) and this committee has submitted to the State officials national association ... for the various labeling of certain ... State laws ... modified ...

The two sets of specimen warnings were presented to the National Drug ... Conference Dec... by Dr. ... R. ... as ... special committee on food, drug, and cosmetic legislation and its enforcement.

ble to mercury bleach creams. See Notice to Manufacturers of Mercury Bleach Creams of May 13, 1939.

17. Mercury:—

Mercury preparations intended for administration by mouth or as a douche:—

"Warning:—The prolonged or frequent use of this preparation or the use in amounts in excess of the prescribed directions may cause mercury poisoning."

... irritants such as ammoniated ... arnica, camphor, cayenne pepper (capsicum), ... methyl salicylate, oil of ... mustard, or turpentine oil intended for surface application:—

"Caution:—This drug requires careful and accurate dosage under the guidance of a physician. The appearance of anorexia (loss of appetite), nausea, vomiting, headaches or heart irregularities (palpitation) often indicates ... full ... dosage ... not ... without first consulting the physician."

(Diuretics, Cathartics, and ... Such preparations should be dispensed only on physicians' prescriptions, and such drugs should be classed as dangerous under section 502 (j).)

Important:—Persistent coughs may ... the presence of a serious condition. Do not use this preparation ... there is a high fever or the cough ... persisted for 10 days without securing medical advice."

15. Preparations sold under representations relating to ... [illegible] ... symptoms of ... serious ailments, if no improvement is noted within a few days, consult your physician.

16. Preparations ... of symptoms of ...

"Common colds may lead to more serious ailments, especially if accompanied by fever. If no immediate improvement is noted, consult your physician."

Mercurials

XXV. Mercury:—

1. Intended for administration by mouth or as a douche:—

"Warning:—The prolonged or frequent use of this preparation or the use of amounts in excess of the prescribed directions may cause serious mercury poisoning."

2. Intended for application to the skin:—

"Warning:—This preparation may cause irritation of the skin, and the application to large areas may cause

No. Carolina Display Sign Tax Voided by High Court

OPD Washington Bureau
December 23, 1940

The Supreme Court of the United States today declared unconstitutional an annual $250 tax levied by North Carolina upon out-of-the-State companies whose agents display samples in hotel rooms for the purpose of obtaining retail orders. The court ruled that the levy, applied in this instance to Best & Co., New York, was a discriminatory burden upon interstate

Drug Producer Deni... Conn. Fair Trade B...

Burroughs-Wellcome & Co... maceutical manufacturer, th... was refused a temporary in... December 20 by Judge John E... the Superior Court in Hartford... in its effort to restrain the ... Wholesale Perfume Company, ... Haven, from selling its produc... minimum prices agreed to b... distributors.

The pharmaceutical manuf... in the action claimed a viol... the Connecticut fair trade ... Judge Booth stated that in vie... importance of the controve... doubtful and unsettled char... the disputed questions involv... the length of time which the ... condition of the parties has ... issuance of a temporary in... would not be justified. He s... a petition be made for a pe... injunction and that the issue ... dispute be tried in full bef... court.

T... Wellcome ... it had ente... contracts with other Connecti... tributors for sale of its trade ... products at established prices. ... the following concern... to enter a similar agreem...

Bus... Research Statis... Established in West by U...

OPD Washington ...
December ...

Secretary of Commerce ... Jones announced today the es... ment of a regional business ... station at Minneapolis, to coo... with the University of Minn... develop practical and ... guides of current business ... and practices.

The new business research ... will cooperate closely with the ... ports District Office of the Bu... Foreign and Domestic Comm... with local business interests ... area served by the District ... (among the general area ...

RECEIVED FEB 10 1941 LIBRARY THE CHEMISTS' CLUB

Current Market Quotations

February 7, 1941

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When not otherwise indicated, quotations are f.o.b. New York prices on large lots. Price changes and trends are noted in the market reports on other pages, with other informative comment. The locations of the several reports are indicated on page 4.

A

Acacia (see Gum, arabic).

Acetal, dms., dlvd.....lb. .75 - 1.00

Acetaldehyde, 99%, dms., 55 & 110 gls., works..lb. .11 - —
5 & 10 gls., works.....lb. .14 - —

Acetamide, CP, kgs., 5,000 lbs. a year, works..lb. .36 - —
200-lb. lots, works.....lb. .38 - —
100-lb. lots, works.....lb. .55 - —
5 to 50-lb. lots, works.lb. .70 - —

tech., kgs., 5,000 lbs. a year, works..lb. .28 - —
200-lb. lots, works.....lb. .30 - —
100-lb. lots, works.....lb. .45 - —
5 to 50-lb. lots, works.....lb. .50 - —

Acetanilide, tech., cryst., bbls..lb. .29 - .31
powd., bbls.....lb. .27 - .29

USP, cryst., bbls., 2,000-lb. lots, lb. .32 - —
smaller lots.....lb. .33 - —

dmc., 25-lb. lots.....lb. .38 - —
kgs., 2,000-lb. lots.....lb. .33 - —
smaller lots.....lb. .34 - —

powd., bbls., 2,000-lb. lots..lb. .30 - —
smaller lots.....lb. .31 - —

dms., 25-lb. lots.....lb. .36 - —
kgs., 2,000-lb. lots.....lb. .31 - —
smaller lots.....lb. .32 - —

Acetoacetanilide, dms.....lb. .47 - .65

Acetone, CP, dms., c.l., dlvd..lb. .07½ - —
l.c.l., dlvd.....lb. .08 - —
tanks, dlvd.....lb. .06 - —

Methyl (see M).

Acetophenone, bots.....lb. 1.60 - —
cns., 25 to 50 lbs.....lb. 1.30 - 1.35
dms., 100 lbs.....lb. 1.27 - —

Acetophenetidin, bbls., kgs., 1,000 lbs..lb. 1.00 - —
50 lbs.....lb. 1.02 - —
25 lbs.....lb. 1.05 - —

Acid, abietic, dms., c.l., f.o.b. all points in U. S. E. of and including Kans., Neb., N. D., Okla., S. D., Tex. E. of Austin and Brownsville..lb. .08¾ - —
l.c.l., same terms.....lb. .09 - .12

Acetic, com'l or redist., 28%, bbls..100 lbs. 2.23 - 2.48
cbys., cs.....100 lbs. 2.73 - 2.98
56%, bbls.....100 lbs. 4.15 - 4.40
cbys., cs.....100 lbs. 4.65 - 4.90
70%, bbls.....100 lbs. 5.17 - 5.42
cbys., cs.....100 lbs. 5.67 - 5.92
80%, bbls.....100 lbs. 5.89 - 6.14
cbys., cs.....100 lbs. 6.39 - 6.64
glacial, nat., CP, cbys.100 lbs.14.00 - —
99.5%, bbls.....100 lbs. 7.62 - 7.87
l.c.l., same terms.....lb. .09 - —
cbys.....100 lbs. 8.12 - 8.37
tanks.....100 lbs. 5.00 - 5.50
USP, bbls.....100 lbs. 10.25 -10.50
cbys.....100 lbs.10.75 -11.00
synth., 99.5%, al. dms.100 lbs. 8.43 - 8.68
tanks.....100 lbs. 5.50 - —
USP XI, al. dms..100 lbs.10.25 -11.00
C.P., dms.....100 lbs.13.50 -14.00
pure, 30%, bbls.....100 lbs. 3.28 - 3.53
cbys., cs.....100 lbs. 3.78 - 4.03
36%, bbls.....100 lbs. 3.66 - 3.91
cbys., cs.....100 lbs. 4.16 - 4.41
60%, bbls.....100 lbs. 6.15 - 6.40
cbys., cs.....100 lbs. 6.65 - 6.90
80%, bbls.....100 lbs. 7.68 - 7.93
cbys., cs.....100 lbs. 8.18 - 8.43

Acetic acid price differentials above are for c.l. and l.c.l. quantities; the prices apply dlvd at destination in the following States: Conn., Dela., D. of C., Md., Mass., N. J., N. Y., N. and S. Car., R. I., Penna., and Va. For all other States except Wash., Ore., and Calif., prices are f.o.b. works, frt. equalized.

Acetic, anhydride, dms., s.l., frt. alld..lb. .10½ - .11½
l.c.l., dms., frt. alld.....lb. .12 - .13

Acetylsalicylic, special, USP, fine cryst., gran., 200-lb. bbls..lb. .45 - —
standard, USP, fine cryst., gran., 20 or 40 mesh, 200-lb. bbls..lb. .40 - —
powd., 80 mesh, 200-lb. bbls..lb. .40 - —

Adipic, fib. dms., works.....lb. .31 - —

Anthranilic, refd., bbls.....lb. 1.15 - 1.20
tech., bbls.....lb. .75 - —

Arsenous, tech. (see Arsenic, White).
USP, powd., dms., kegs.....lb. .20 - .22

Ascorbic, bots., dms.....oz. 2.00 - 2.05

Battery, cbys., c.l., E. works, 100 lbs. 1.60 - —
l.c.l., 25 or more, E. works, 100 lbs. 1.85 - —
10-25, E. works.....100 lbs. 1.95 - —
1-9, E. works.....100 lbs. 2.55 - —

Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs or less.....lb. .47 - —

USP, bbls., 4,000 lbs. or more, lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59

dms., 4,000 lbs. or more..lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .59 - .60

Boric, tech., 99.5%, gran., bulk, frt. alld..ton.93.50 - —
bgs., c.l., frt. alld...ton.96.60 - —
ton lots, ex whse...ton.108.00 - —
less than ton lots, ex whse..ton.113.00 - —

bbls., c.l., frt. alld..ton.106.00 - —
ton lots, ex whse..ton.118.00 - —
less than ton lots, ex whse..ton.123.00 - —

powd., bgs., c.l., frt. alld, ton.101.00 - —
ton lots, ex whse...ton.113.00 - —
less than ton lots, ex whse..ton.118.00 - —

bbls., c.l., frt. alld..ton111.00 - —
ton lots, ex whse...ton.123.00 - —

Acid, boric, tech., 99.5%, powd., bbls., less than ton lots, ex whse..ton.128.00 - —

USP, $25 per ton higher.

Butyric, 99%, dms., c.l., S. Charleston, W. Va..lb. .22 - —
l.c.l., same basis.....lb. .23 - —
tanks, same basis.....lb. .21 - —

Broenner's bbls.....lb. 1.11 - —

Camphoric, cns.....lb. 7.00 - —

Capric, dms.....lb. .12 - .13

Caproic, dms., works.....lb. .50 - .55

Carbolic (see Phenol).

Caprylic, dms.....lb. .17½ - —

Castor oil, split, dms.....lb. .14½ - .15½

Chlorosulphonic, d m s., c.l., works..lb. .0350- —
5-drum lots, works.....lb. .04 - —
single drum.....lb. .05 - —
tanks, works.....lb. .03 - —

Chromic, 99%, dms., c.l., dlvd, N.Y..lb. .15¼ - —
l.c.l., 5 tons, dlvd., N.Y. lb. .15¾ - —
smaller quantities, dlvd., N.Y..lb. .16¼ - .17¼

Cinnamic, refd., bots.....lb. 2.85 - 3.25

Citric, cryst., gran., bbls., car lots..lb. .20 - —
10,000-lb. lots, one shipt. lb. .20½ - —
smaller lots.....lb. .21 - —

anhydr., gran., dms., 10,000 lbs., 1 shipt..lb. .23 - —
smaller lots.....lb. .23½ - —

Citric acid quotations on powder are ½c. higher than on granular. Keg packing is ½c. higher than barrels. Prices are f.o.b N.Y. Chicago and St. Louis deliveries are ½c. higher than N. Y.

Cleve's, bbls.....lb. .57 - —

Coconut oil, dms.....lb. .10¼ - .10¾

Cottonseed oil, dist., dms....lb. .07¼ - .07¾
tanks.....lb. .06¾ - —

Cresylic (coaltar) high-boil 50%, 210°-215°, dms., c.l., works, frt. equald..gal. .68 - —
l.c.l., same basis....gal. .70 - —

special blends (50%, 210°-215°), dms., c.l., works, frt. equald..gal. .71 - —
l.c.l., same basis....gal. .73 - —

low-boil (30%, 204°-206°), dms., c.l., works, frt. equald..gal. .68 - —
l.c.l., same basis....gal. .70 - —

special blends (50%, 204°-206°), dms., c.l., works, frt. equald..gal. .71 - —
l.c.l., same basis....gal. .73 - —

imported, pale, dms., gal. .63 - .65

Cresylic (petroleum), high-boil (240°-300°), non-return dms., c.l., works, East. U. S..gal. .43 - —
l.c.l., same basis.....gal. .44 - .45

tanks, dlvd., East. U.S.gal. .389 - —

medium-boil (222°-249°), non-return dms., c.l., works, East. U.S..gal. .49 - —
l.c.l., same basis....gal. .50 - .51

tanks, dlvd., East. U.S.gal. .448 - —

Crotonic, 10 bbls. or more, dlvd..lb. .21 - —
smaller lots, dlvd.....lb. .26 - —
smaller containers, dlvd....lb. .50 - —

Diethylbarbituric (see Barbital).

Formic, dom., 90%, cbys., c.l., works lb. .10½ - —
l.c.l., 25 cbys. and over..lb. .11 - —
1-24 cbys.....lb. .11½ - —

Fumaric, bbls., 1-ton delivery..lb. .24 - —
smaller lots.....lb. .25 - .28

Gallic, tech., bbls.....lb. .90 - .93

N.F. VI, bbls., 200 lbs., 5 or more..lb. 1.07 - —
single bbls.....lb. 1.10 - —
fib. dms., 25 lbs.....lb. 1.16 - —

Gamma, bbls.....lb. .85 - —

Gluconic, tech., 50%, bbls., 500 lbs..lb. .12 - —
100-lb. kgs.....lb. .15 - —
25 or 50-lb. demijns.....lb. .21 - .23
5-lb. bots.....lb. .29 - —

H, bbls.....lb. .45 - —

Hydriodic, 45-47%, cbys.....lb. 2.42 - —
5-lb. bots.....lb. 2.63 - —
57%, bots.....lb. 2.90 - —

Hydrobromic, 10% dilute, cby. lb. .20 - —
concentrated, 34%, cby.....lb. .35 - —

Hydrochloric (see Muriatic).

Hydrocyanic, cyls., works....lb. .80 - 1.00

Hydrofluoric, 30%, bbls.....lb. .06 - .06½
rubber, dms.....lb. .08 - .08½

48%, lead, cbys.....lb. .12 - —
rubber, dms.....lb. .11 - —

52%, lead, cbys.....lb. .13 - —
rubber, dms.....lb. .12 - —

60%, lead cbys.....lb. .14 - —
rubber, dms.....lb. .13 - —

Hydrofluosilic, 30-35%, 420 lbs., bbls..lb. .09 - .09¼

Hypophosphorus, USP, 30%, djns..lb. .75 - .80

Lactic, tech., dark, 22%, bbl., c.l., works..100 lbs. 2.50 - —
l.c.l., works.....100 lbs. 2.75 - —
cbys., works...100 lbs. 3.75 - —

44%, bbls., c.l., works, 100 lbs. 5.50 - —
l.c.l., bbls., works... 100 lbs. 5.75 - —
cbys., works...100 lbs. 6.75 - —

light, 22%, bbls., c.l., works, 100 lbs. 3.50 - —
l.c.l., works.....100 lbs. 3.75 - —
cbys., works...100 lbs. 4.75 - —

44%, bbls., c.l., works.... 100 lbs. 6.50 - —
l.c.l., works.....100 lbs. 6.75 - —
cbys., works...100 lbs. 7.75 - —

50%, edible, 20 or more, cbys..lb. .10½ - .11½
5 to 19, cbys.....lb. .11 - .12
1 to 4 cbys.....lb. .11½ - .12½

Acid, lactic, plastic grade, bbls., cbys., 20 or more..lb. .12¼ - .13½
5 to 10, cbys.....lb. .12¾ - .13¾
1 to 4, cbys.....lb. .13¼ - .14½

80%, bbls., cbys., 5 or more..lb. .21 - .22
1 to 4, cbys.....lb. .21½ - .22½

USP, XI, 85%, cbys.....lb. .42 - .45
USP, VIII, 75%, cbys.....lb. .40 - .43

Lauric, dist., tech., dms.....lb. .12 - .12½

Laurent's, bbls.....lb. .45 - —

Linseed oil, light, dms.....lb. .12¾ - .13¼

Maleic, powd., dms.....lb. .30 - —
anhydride, dms., c.l.....lb. .25 - —
l.c.l.....lb. .26 - —

Malic, powd., kegs.....lb. .47 - —

Mandelic, bots.....lb. 2.30 - —
dms., 1,000 lbs.....lb. 2.05 - —
smaller lots.....lb. 2.10 - 2.15

Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit.....lb. .0085- .009

Molybdic, kegs, works.....lb. .95 - 1.10

Monochloracetic, tech., bbls..lb. .15 - .18

Monosulphonic, bbls.....lb. 1.50 - —

Muriatic, 18°, cbys, c.l., E. works..100 lbs. 1.50 - —
l.c.l., 25 and over, E. works..100 lbs. 1.75 - —
10 to 24, works...100 lbs. 1.85 - —
1 to 9, works...100 lbs. 2.45 - —

tanks, works.....100 lbs. 1.05 - —

20°, cbys., c.l., E. works, 100 lbs. 1.75 - —
l.c.l., 25 and over, works, 100 lbs. 2.00 - —
10 to 24, works...100 lbs. 2.10 - —
1 to 9, works...100 lbs. 2.70 - —

tanks, works.....100 lbs. 1.15 - —

22°, cbys., c.l., E. works, 100 lbs. 2.25 - —
l.c.l., 25 and over, works, 100 lbs. 2.50 - —
10 to 24, works...100 lbs. 2.60 - —
1 to 9, works...100 lbs. 3.20 - —

tanks, works.....100 lbs. 1.65 - —

C.P., dealers, cbys.....lb. .06½ - —
6-lb. bots.....lb. .17½ - —
consumers, cbys.....lb. .08 - —
6-lb. bots.....lb. .19 - —

Myristic, dist., dms.....lb. .16 - .16½

Naphthenic, dom., acidity 160, dms., c.l., works..lb. .06½ Nom.
l.c.l., works.....lb. .07 Nom.
tanks, works.....lb. .06 Nom.

220 min. acidity, dms., c.l., works..lb. .09 Nom.
l.c.l., works.....lb. .09½ Nom.
tanks, c.l., works.....lb. .08 Nom.

240 min., acidity, dms., c.l., works..lb. .10 Nom.
l.c.l., works.....lb. .10½ Nom.
tanks, works.....lb. No prices

Nicotinic, 25-lb. cns.....lb. 9.00 - —
5-lb. bots.....lb. 9.50 - —
1-lb. bots.....lb.10.00 - —

Nitric, 36°, cbys., c.l., E. works, 100 lbs. 5.00 - —
l.c.l., 25 and over, E. works..100 lbs. 5.25 - —
10 to 24, works...100 lbs. 5.35 - —
1 to 9, works...100 lbs. 5.95 - —

38°, cbys., c.l., E. works, Western works...100 lbs. 5.50 - —
l.c.l., 25 and over, E. works..100 lbs. 5.75 - —
10 to 24, works...100 lbs. 5.85 - —
1 to 9, works...100 lbs. 6.45 - —

40°, cbys., c.l., E. works, 100 lbs. 6.00 - —
l.c.l., 25 and over, E. works..100 lbs. 6.25 - —
10 to 24, works...100 lbs. 6.35 - —
1 to 9, works...100 lbs. 6.95 - —

42°, cbys., c.l., E. works, 100 lbs. 6.50 - —
l.c.l., 25 and over, works, 100 lbs. 6.75 - —
10 to 24, works...100 lbs. 6.85 - —
1 to 9, works...100 lbs. 7.45 - —

C.P., USP, dealers, cbys...lb. .11½ - —
7-lb. bots.....lb. .21½ - —
consumers, cbys.....lb. .13 - —
7-lb. bots.....lb. .23 - —

Oleum (see sulphuric fuming).

Oxalic, dom., bbls., c.l., works, 10,000 lbs. and over.....lb. .10¾ - —
smaller quantities.....lb. .11 - —
.12 - .14

Palmitic, bgs.....lb. .09¾ - .10¼

Palm oil, white, dist., dms..lb. .06¾ - .07¼
tanks.....lb. .06¼ - —

Phenylacetic, bots.....lb. 1.50 - 1.95

Phosphoric, ortho, tech., 50%, cbys..lb. .06 - —
75%, cbys.....lb. .07½ - —

USP, 85%, s. g. 1.710, cbys, 180 lbs..lb. .12 - —
50%, s. g. 1.347, cbys, 70 lbs..lb. .12 - —
dms., 25 lbs.....lb. .15 - —
10%, dilut., cbys., djns...lb. .07 - .07½

Picramic, kgs.....lb. .65 - .70

Picric, bbls.....lb. .35 - —

Propionic synth., pure, 55-gal. dms., returnable, works..lb. .14 - —
tanks, works.....lb. .11 - —

Pyrogallic, tech., lump, powd., bbls..lb. 1.20 - —
cns.....lb. 1.25 - —

USP, cryst., cns.....lb. 1.70 - —
resubl., cns.....lb. 2.20 - —

Pyroligenous, bbls., dlvd. E.gal. .25 - —

Ricinoleic, com'l, split (see Acid, castor oil, split).
tech., dms., c.l., works.....lb. .27 - —
l.c.l., works.....lb. .28 - .33

Salicylic, tech., bbls.....lb. .33 - —
USP, bbls.....lb. .35 - .40

Sebacic, CP, bbls., works.....lb. No prices
tech., bbls., works.....lb. No prices

Soybean oil, dist., dms.....lb. .08¼ - .08¾

Stearic, dist., double pressed, bgs., dlvd..lb. .10 - .11
single pressed, bgs., dlvd..lb. .09½ - .10½
triple pressed, bgs., dlvd..lb. .12¾ - .13¾

saponif., double pressed, bgs., dlvd..lb. .10¼ - .11¼
triple pressed, bgs., dlvd..lb. .13 - .14

Acid, succinic, bbls.....lb. .75 - —
Sulphanilic, CP, bots., works.lb. 1.60 - 1.63
tech., dms., works.....lb. .17 - —
Sulphonaphthenic, dms.....lb. .04 - .10

Sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.25 - —
l.c.l., 25 and over, works, 100 lbs. 1.50 - —
10 to 24, works...100 lbs. 1.60 - —
1 to 9, works...100 lbs. 2.20 - —

tanks, E. works.....ton.13.00 - —

66°, cbys., c.l., E. works, 100 lbs. 1.50 - —
l.c.l., 25 and over, works, 100 lbs. 1.75 - —
10 to 24, works...100 lbs. 1.85 - —
1 to 9, works...100 lbs. 2.45 - —

tanks, E, works.....ton.16.50 - —

98°, tanks, works.....ton.17.50 - —

CP, USP, dealers, cbys.....lb. .06½ - —
9-lb. bots.....lb. .15½ - —
consumers, cbys.....lb. .08 - —
9-lb. bots.....lb. .17 - —

fuming, 20%, tanks, E. works, ton.18.50 - —

Tannic, tech., bbls., dms....lb. .54 - .56
USP, fluffy, bbls., 1,000-lb. lots..lb. .98 - —
100-lb. lots.....lb. 1.00 - —
25-lb. lots.....lb. 1.03 - —
powd., bbls., 1,000 lbs.....lb. .88 - —
smaller lots.....lb. .90 - —

Tartaric, USP, dom., cryst., gran., powd., bbls., 10,000 lbs. or more, one shipment.....lb. .51½ - —
smaller quantities....lb. .52 - —
kgs.....lb. .52½ - —

Tobias, bbls.....lb. .55 - .60
Trichloroacetic, bots.....lb. 2.00 - 2.50
Tungstic, CP, kgs., works...lb. No prices
Chem. grade, kgs., works..lb. No prices

Aconite, leaves, bls.....lb. .38 - .42
Root. bls.....lb. .45 - .50

Aconitine, amorph., bots.....oz.23.00 - —
vls.....gr. 1.00 - —
cryst., bots.....oz.42.00 - —
vls.....gr. 1.00 - —

Acrylonitrile, dms., c.l.....lb. .34½ - —
5,000 lbs. or more.....lb. .35 - —
1 ton to 4,999 lbs.....lb. .35½ - —
1 dm. to 1 ton.....lb. .36 - —
tank cars.....lb. .34 - —

Adeps lanae, anhyd., dms.....lb. .19 - .20
hyd., dms.....lb. .17 - .18

Agar, 1, bls.....lb. 1.40 - 1.45
3, bls.....No prices

Agaric, white, bls.....lb. No stocks

Albumen, blood, dark, flake, bags, f.o.b. Chicago, frt. alld..lb. .13 - —
powd., grade A, same basis, ton lots..lb. .15 - —
smaller lots, same basis.lb. .18 - —
light, dom., flake, dms., f.o.b. Chicago, frt. alld..lb. .55 - .62
import, bgs.....lb. No prices

Egg, gd., dom., cryst., bbls..lb. .63 - .68
powd., dms., bbls.....lb. .70 - .75
import, cs.....lb. .76 - .79

Alcohol, amyl (see also Fusel oil, refd.), ex pentane, dms., c.l., frt. alld..lb. .121 - —
l.c.l., frt. alld.....lb. .131 - —
tanks, frt. alld.....lb. .111 - —
normal, dms., l.c.l., wks...lb. .25 - —
Tertiary, refd., dms., l.c.l., frt. alld..lb. .69 - —

Benzyl, cns.....lb. .68 - —
drums.....lb. .68 - —

Butyl, normal, cns., works...lb. .14½ - .16¼
dms., c.l., frt. alld.....lb. .10 - —
l.c.l., frt. alld.....lb. .10½ - —
tanks, frt. alld.....lb. .09 - —
tankwagon, frt. alld.....lb. .09½ - —

secondary, dms., c.l., frt. paid E. of Miss. R...lb. .08¼ - —
l.c.l., same terms.....lb. .08¾ - —
tanks, same terms.....lb. .07¼ - —

tertiary, denaturing, c. l., dms..lb. .12½ - —
l.c.l., dms.....lb. .13 - —
tanks .....lb. .11½ - —

Caproyl, pure, dms., works...lb. 2.50 - —
tech., dms., works.....lb. .85 - —

Cetyl, dom., CP, fiber ctns., 1,000 lbs..lb. 1.50 - —
500 lbs.....lb. 1.70 - —
100 lbs.....lb. 1.80 - —
25 lbs.....lb. 1.90 - —
5 lbs.....lb. 2.00 - —
com'l, dms.....lb. .95 - —

Cinnamic, bots.....lb. 2.00 - 2.50

Denatured, CD14, dms. c.l., works, E..gal. .32½ - —
l.c.l., works, dms.....gal. .37½ - —
tanks, E., works.....gal. .26½ - —

Prices for territories other than E. of Rockies are 4c. per gal. in tanks, and 6c. per gal. in dms., higher. Tankcar sales require written authorization by Alcohol Tax Unit.

SD1 190 pf., bbls., c.l., E. works..gal. .31½ - —
19 bbls., E. works...gal. .33¼ - —
1 to 18 bbls., E. works, gal. .36½ - —
dms., c.l., E. works...gal. .30½ - —
19 dms., E. works...gal. .32½ - —
1 to 18 dms.....gal. .35½ - —
tanks, E. works.....gal. .24½ - —

Anhydrous 5c. per gal. higher.

SD2B, dms., c.l., works, E. gal. .28½ - —
19 dms., works, E....gal. .30½ - —
1 to 18 dms., works, E. gal. .33½ - —
tanks, E. works.....gal. .22½ - —

The sardine can that gave father fits

The Story of a Packaging Problem

FATHER'S fishing trips generally went smoothly until he tackled his lunch.

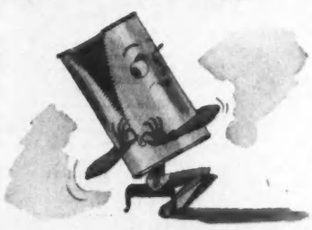
Then, while the coffee came to a boil, father'd turn his attention to the sardines. Always an optimist, he'd start twisting the opening key with bland assurance. And for a few turns all would be well.

Then the key would get balky. Father would pause, take a firm grip on the key and a still firmer one on his temper. The key would still refuse to budge. So father usually

resorted to anything from a gaff to a camp axe to use as an opener for the sardine can.

Sometimes, father would win. Sometimes, the can would. In either case, the birds and the squirrels heard a lot of new words.

Today, hundreds of millions of key-opening cans, in which rest sardines, meat, coffee, vegetable compounds, and what-not, are as easy to open as if they had zippers.



This *is* a change. And what brought it about? A man whose calling in life was dentistry . . . American Can Company . . . *and the thickness of three human hairs!*

This dentist, when he wasn't pulling teeth, was an inventor. The patent on one invention (#1298683) described it as "an improved tearing strip for key-opening cans."

When we at American Can Company looked into this patent, we found that this dentist had almost hit it. For in most cases

his improved strip tore evenly and cleanly, wound up into a neat little roll on the key as you turned it.

Still—this improvement would go haywire quite often . . . which annoyed us. So we went to work.

We found we could *improve* even the "improved" tearing strip by controlling the depth of the scoring.* So this story gets into our laboratories . . . gets way in . . . *under a microscope.*

For the "depth" we're now talking about is microscopic. Nobody had ever measured the depth of such tiny scoring lines before. There were no instruments to do it. There was no method.

So we invented one—a costly, complicated mechanism. It cost thousands of dollars. And all it does is simply measure and control *six thousandths of an inch* . . . the depth of a scoring line, which is about the thickness of three human hairs!

**Scoring.* Can manufacturers' term for the tiny, parallel scratches at the edge of a can which are cut by knife edges into the tin plate.

The result has been worth many times what it cost in money, time, and brains. For today we make hundreds of millions of key-opening cans a year—and believe it or not—*not one goes haywire!*

This taming of the key-opener typifies the inordinate pains to which American Can

Company will go in ironing out the details of any packaging problem.

CANCO

What American Can Puts Against Packaging Problems

- 5 laboratories employing 134 people college trained in the pure, natural, and engineering sciences.
- 13 points from which customers' machinery is serviced . . . 6 points at which customers' machinery is built.
- 67 plants located strategically in the U. S., Canada, and Hawaii.
- A factory-trained sales staff who are specialists in many different types of industry.
- An executive personnel backed by a financial strength that is in itself a tangible business asset.

AMERICAN CAN COMPANY

230 Park Avenue, New York, N. Y.

Alcohol, denatured, SD23G, works, E., c.l., dms..gal. .24½- —
19 dms.....gal. .26½- —
1 to 18 dms.....gal. .28½- —
tanks .....gal. .23½- —
Prices for territories other than E. of Rockies are 4c. per gal., in tanks, and 5c. per gal., in drums, higher.
Special solvent, dms., c.l., works..gal. .21½- —
20 dms., to c.l.....gal. .23½- —
1 to 19 dms.....gal. .26½- —
tanks, E. works.....gal. .25½- —
Tankcar sales require written authorization by Alcohol Tax Unit.
Diacetone, acetone-free, dms., c.l., dlvd..lb. .10½- —
l.c.l., dlvd.....lb. .11 - —
tanks, dlvd.....lb. .09½- —
tech., dms., c.l., dlvd.....lb. .10 - —
l.c.l., dlvd.....lb. .10½- —
tanks, dlvd.....lb. .09 - —
Ethyl, 190 pf., ex. molasses, dms., c.l.....gal. 6.00½- —
19 dms.....gal. 6.04 - —
5 to 18 dms.....gal. 6.07 - —
1 to 4 dms.....gal. 6.07 - —
tanks .....gal. 5.94½- —
absolute, dms., c.l.....gal. 6.35½- —
19 dms.....gal. 6.39 - —
5 to 18 dms.....gal. 6.42 - —
1 to 4 dms.....gal. 6.42 - —
Ethyl alcohol in bbls. 1c. higher than dms.
Grain alcohol 25c. gal. higher.
Ethylhexyl, dms., c.l., works..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Furfuryl, tech., cns., works..lb. .35 - —
dms., c.l., 33,000 lbs., works, lb. .20 - —
l.c.l., 500 lbs. and more, works..lb. .25 - —
Isoamyl, primary, dms., l.c.l., dlvd..lb. .27 - —
cans, works.....lb. .25 - —
Isobutyl, refd., dms., works..lb. .0790- —
tanks, same terms.....lb. .0690- —
Isopropyl, refd., 91% dms., 5 gals., f.o.b. dest..gal. .66½- —
55 gals., c.l., same basis, gal. .35 - —
l.c.l., same basis...gal. .40 - —
tanks, frt. alld.....gal. .30 - —
99% dms., 5 gals., same basis..gal. .65 - —
55 gals., c.l., same basis, gal. .38 - .42
l.c.l., same basis...gal. .43 - .47
tanks, same basis.....gal. .32 - .37
Methyl (see Methanol).
Phenylethyl, bots., cns.....lb. 2.30 - 2.35
Polyvinyl, type A, fiber-pack, 2,000 lbs. and over, f.o.b. cars, Niagara Falls..lb. .65 - —
less than 2,000 lbs.....lb. .70 - —
type B, fiber-pack, 2,000 lbs. and over, same basis..lb. .60 - —
less than 2,000 lbs.....lb. .65 - —
Propyl, normal, dms., works, gal. .70 - —
Octyl (see ethylhexyl alcohol).
Tetrahydrofurfuryl, dms., contract, f.o.b. Waverly, N. Y.lb. .44 - —
450-lb. lots, same basis...lb. .50 - —
cns., f.o.b., Cedar Rapids, Ia. lb. .55 - —
Aldehol, denat., grade, dms., tanks, works..gal. .70 - .73
Aldehyde bisulphite, bbls., dlvd., lb. .17 - —
smaller containers.....lb. .20 - —
Aldol, 95%, 55 and 110 gal. dms., c.l., works..lb. .11 - —
l.c.l., works.....lb. .12 - —
5 and 10 gal. dms., works, lb. .15 - —
Aletris root, bgs.....lb. .39 - .40
Alizarin (see Red, alizarin).
Alkanet root, bgs.....lb. .65 - .70
Aloe, Cape, cs.....lb. .18 - .19
Curacao, cs.....lb. .53 - .54
gourds, bbls.....lb. .80 - .85
Socotrine, kgs.....lb. .42 - .45
Aloin, 140-lb. bbls.....lb. 3.25 - 3.60
100-lb. kgs.....lb. 3.27 - —
25-lb. fib. dms.....lb. 3.34 - 3.64
Alphanaphthiol, bbls.....lb. .52 - —
Alphanaphthylamine, bbls.....lb. .32 - —
Althea root, USP, cube cut, bbls., lb. .90 Nom.
Alum, ammonia, burnt, USP, bbls., kgs..lb. .16 - .18
gran., bbls., works....100 lbs. 3.50 - —
dlvd. N.Y., Phil...100 lbs. 3.50 - —
lump, bbls., works.....100 lbs. 3.75 - —
dlvd. N.Y., Phil...100 lbs. 3.75 - —
powd., bbls., works....100 lbs. 3.90 - —
dlvd. N.Y., Phil...100 lbs. 3.90 - —
Ammonia alum prices are for contract and open market; f.o.b. Phila.; frt. equalized with Marcus Hook, Boston, Atlanta, or Joliet; rail or water rates, whichever is lower. L.c.l. quantities must carry l.c.l. rate applying; for truck or ex warehouse deliveries all metrop. zones (except N.Y.) add l.c.l. rail or water rate, whichever is lower, from shipping or equalization point, dlvd. N.Y. price apply to truck or ex warehouse.
Potash, gran., bbls., works.... 100 lbs. 3.75 - —
dlvd. N. Y., Phila...100 lbs. 3.75 - —
lump, bbls., works....100 lbs. 4.00 - —
dlvd. N.Y., Phila...100 lbs. 4.00 - —
powd., bbls., works....100 lbs. 4.15 - —
dlvd. N.Y., Phila...100 lbs. 4.15 - —
Potash alum prices on same basis as those for ammonia alum.
Potash, chrome, bbls.....lb. No price
Soda, bbls., c.l., works...100 lbs. 4.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina acetate, tech. basic, powd., insoluble, bbls., 10 or more, dlvd...lb. .35 - —
1 to 9, dlvd.....lb. .40 - —
smaller containers...lb. .50 - —
soluble, bbls., dlvd....lb. .35 - —
smaller containers, dlvd. lb. .45 - —
solut., 32%, bbls., c.l., dlvd..lb. .09½- —
l.c.l., 10 or over, dlvd. lb. .11 - —
1 to 9, dlvd.....lb. .12 - —
normal, pwd., bbls., dlvd. lb. .22 - —
smaller containers, dlvd. lb. .25 - —
solut., 20%, bbls., c.l., dlvd..lb. .03 - —
l.c.l., 10 or over, dlvd. lb. .08½- —
1 to 9, dlvd.....lb. .09 - —
Chloride, anhyd., com'l, dms. (extra), 45,000 lbs. and over, works..lb. .08 - —
12,000 to 40,000 lbs., works..lb. .09 - —
1,100 to 11,000 lbs., works, lb. .10 - —
140 to 875 lbs., works.lb. .11 - —
100 lbs. or less, works.lb. .12 - —
Alumina, chloride, cryst., com'l, dms, c.l., works..lb. .06 - —
l.c.l., works.....lb. .06½- .06¾
solution, 32 deg., cbys., c.l., works..lb. .02¾- —
l.c.l., works.....lb. .03½- —
Formate, 30% solut., bbls., c.l., dlvd..lb. .13 - —
l.c.l., dlvd.....lb. .15 - —
Hydrate, heavy, bbls., c.l., works..lb. .0290- —
l.c.l., bbls., works.....lb. .03½- —
bgs., c.l., works.....lb. .0290- —
light, bgs., c.l., dlvd.....lb. .12 - —
l.c.l., bgs., dlvd.....lb. .12½- —
bbls., c.l., dlvd.....lb. .12½- —
l.c.l., bbls., dlvd.....lb. .13 - —
Oleate, dms., contract.....lb. .17½- —
open order.....lb. .17½- .20
Palmitate, precip., bbls.....lb. .20½- .21½
Resinate, precip., dms., dlvd.lb. .15 - —
Stearate, precip., bbls., ctns., c.l..lb. .18 - —
l.c.l. .....lb. .19 - —
Sulphate, com'l, bgs., c.l., works, frt. equaled..100 lbs. 1.15 - —
l.c.l., works, frt. equald.. 100 lbs. 1.40 - —
bbls., c.l., works....100 lbs. 1.35 - —
l.c.l., works, frt. equaled. 100 lbs. 1.60 - —
iron free, bgs., c.l., works, 100 lbs. 1.60 - —
l.c.l., works.....100 lbs. 1.85 - —
bbls., c.l., works....100 lbs. 1.80 - —
l.c.l., works.....100 lbs. 2.05 - —
Aluminum, 98-99%, c.l.....lb. .17 - —
l.c.l. .....lb. .18 - —
paste, lining, extra fine, dms., 1,500 lbs..lb. .60½- —
ink, dms., 1,500 lbs....lb. .70½- —
standard, dms., 1,500 lbs..lb. .57½- —
powder, lining, extra fine, dms., 1,500 lbs..lb. .91 - —
standard, dms., 1,500 lbs..lb. .57 - —
litho, extra brilliant, dms., 1,500 lbs..lb. .42 - —
extra fine, dms., 1,500 lbs..lb. .44 - —
lining, dms., 1,500 lbs....lb. .57 - —
standard, dms., 1,500 lbs..lb. .39 - —
rubber compound, dms., 1,500 lbs..lb. .38 - —
unpolished, dms., 1,500 lbs. lb. .36 - —
varnish, extra brilliant, dms., 1,500 lbs..lb. .41 - —
extra fine, dms., 1,500 lbs.lb. .43 - —
standard, dms., 1,500 lbs..lb. .38 - —
Aluminum paste and powder prices are 5c. per lb. higher for less than 200 lbs.; 2c. per lb. higher for 200-400 lbs.; and 1c. per lb. higher for 400-1,500 lbs.; for containers smaller than drums, prices are 1c. per lb. higher for 100 lbs.; 1½c. per lb. higher for 50 lbs.; 3c. per lb. higher for 10 lbs.; 5c. per lb. higher for 2 lbs.; 8c. per lb. higher for 1 lb.; and 12c. per lb. for ¼ lb.; on single shipments of 5,000 lbs. prices are 1c. per lb. lower; for 30,000 lbs. prices are 2c. per lb. lower. Transportation allowed East of Mississippi.
Ambergris, gray, tins.....oz.15.00 -25.00
Aminomethylpropanol, dms., works..lb. .50 - —
5 and 10-gal. cans, works..lb. .60 - —
Aminopyrine, 100-lb. dms.....lb. 4.00 - —
5-lb. bots.....lb. 4.22 - 4.26
Ammonia, acetate, bbls., kgs., dlvd..lb. .27 - .28
dms., dlvd.....lb. .26 - .26
Aldehyde, dms., works.....lb. .68 - .70
Anhydrous, fertilizer, f.o.b. Belle, W. Va., frt. equal with Hopewell, Va.....ton.90.00 - —
refrigeration, tanks, works, lb. .65 - —
pure, cycls., dlvd., met. N.Y., lb. .16 - —
Anhydrous ammonia in cylinders is quoted on a nationwide schedule of delivered and stock point prices in all States.
Aqua, 26°, cbys.....lb. .05¼- —
dms., c.l.....lb. .02¼- —
l.c.l. .....lb. .02½- —
tanks (on NH_3 content), f.o.b. works...lb. .04 - —
Benzoate, dms., kgs., 4,000 lbs. or more..lb. .40 - —
1,000 lbs. to 3,900 lbs....lb. .41 - —
900 lbs., or less.....lb. .42 - —
Bicarbonate, dms., dlvd., Met. N.Y..lb. .0564- .0614
Bichromate, bbls.....lb. .20 - .22
Bifluoride, bbls.....lb. .14½- .16½
Borate, bbls., kgs.....lb. .15 - .16
Bromide, gran., bbls.....lb. .31 - —
bxs.....lb. .34 - .35
kegs .....lb. .32 - —
Carbonate, lump, dms., dlvd., Met. N.Y..lb. .08¼- .09¼
cns., same basis.....lb. .14¼- —
powdered, 1c. per lb. higher.
Chloride, tech., (see Ammoniac, sal).
USP, gran., 225-lb. bbls....lb. .12 - .16
100-lb. kgs.....lb. .15 - —
Citrate, 250-lb. bbls.....lb. .75 - —
100-lb. dms.....lb. .80 - —
50-lb. dms.....lb. .82 - —
25-lb. dms.....lb. .84 - .85
Fluoride, bbls.....lb. .17 - .19
Hydroxide (see Ammonia, aqua).
Hypophosphite, dms.....lb. 1.25 - 1.27
jars .....lb. 1.35 - —
Iodide, 5-lb. bots.....lb. 3.71 - —
jars .....lb. 3.65 - —
Linoleate, 80%, anhyd., bbls., lb. .12 - —
Molybdate, kgs., wks.....lb. 1.05 - 1.20
Nitrate, tech., bgs., works, 100 lbs. 4.35 - —
bbls., works.....100 lbs. 4.55 - —
Oleate, dms.....lb. .14 - —
Oxalate, neutral, powd., bbls., kgs..lb. .19 - .25
pure gran.....lb. .32 - —
Perchlorate, kgs.....lb. No stocks
Persulphate, kgs., dom.....lb. .21 - .22
Phosphate, dibasic, N.F.V., bls., lb. .37 - —
kgs. .....lb. .39 - —
tech., bbls., c.l.....lb. .07¾- —
l.c.l. .....lb. .08¾- .09¼
monobasic, crude (fert. grade), 11% N 48% phos., bulk, f.o.b. E. works, unit-ton. 1.55 & .79
pure, bbls.....lb. .40 - .45
tech., bbls., c.l.....lb. .07¼- —
l.c.l. .....lb. .08¾- .09¼
Salicylate, USP, kgs.....lb. 1.15 - 1.20
Silicofluoride, bbls.....lb. .11½- .12
Stearate, anhydrous.....lb. .24½- —
paste .....lb. .08½- —
Sulphate, dom., bulk, c.l., contr., f.o.b. cars, ports, Jan.-June shipt..ton.29.00 - —
spot, same basis.....ton.30.00 - —
Ammonia sulphate prices are $1 per ton less than above prices f.o.b. cars nearest inland producing oven.
Sulphide, liquid, 40-45%, basis, 100%, dms., c.l., works..lb. .07½- —
l.c.l., dlvd.....lb. .15 - —
tanks, dlvd.....lb. .07½- —
Ammonia, sulphide, red, 48% cbys., works..lb. .03 - —
dms., works.....lb. .06 - —
yellow, 33%, cbys., works..lb. .03 - —
dms., works .....lb. .06 - —
Sulphocyanide, pure, 99-100%, kgs..lb. .35 - —
tech., kgs.....lb. .40 - —
Ammoniac, gum (see Gum, ammoniac), sal, gray, dom., bbls., c.l. 100 lbs. 5.50 - 5.75
l.c.l. .....100 lbs. 6.00 - 6.70
white, gran., dom., bbls., c.l., works..100 lbs. 4.45 - —
l.c.l., same basis...100 lbs. 5.15 - —
import, cakes.....100 lbs. No prices
Amyl acetate, sx fusel oil, tech., dms., c.l., dlvd..lb. .11½- —
l.c.l., dlvd.....lb. .12 - —
tanks, dlvd.....lb. .10½- —
cns., works.....lb. .16 - .18
ex Pentane, dms., c.l., frt. alld..lb. .115 - —
l.c.l., frt. alld.....lb. .125 - —
tanks, frt. alld.....lb. .10½- —
Alcohol (see Alcohol amyl).
Butyrate, dms., 50 gal., returnable..lb. .75 - —
Caproate, cns.....lb. 2.75 - —
Chloride, normal, dms., works, lb. .56 - —
small lots, works.....lb. .68 - —
mixed, tech., dms., c.l., works..lb. .0365- —
l.c.l., works.....lb. .0665- —
tanks, works.....lb. .0465- —
Nitrite, bots.....lb. 1.80 - 1.85
Mercaptan, dms., l.c.l., works, lb. 1.10 - —
Oleate, dms., l.c.l., works...lb. .26 - —
Salicylate, 5 lbs., bots.....lb. .61 - —
cns., 25 lbs.....lb. .51 - —
Stearate, dms., l.c.l., works..lb. .28 - —
Amylene, dms., c.l., works...lb. .102 - —
l.c.l., works.....lb. .11 - —
tanks, works.....lb. .09 - —
Anethol, bots.....lb. 1.10 - 1.15
Angelica root, dom., bls.....lb. .35 - .40
import., natural, bls.....lb. 1.75 - 1.80
twisted, bls.....lb. 1.95 - 2.00
Angostura bark, bls.....lb. .90 - .92
Anilin oil, dms.....lb. .15 - —
l.c.l. .....lb. .16 - —
tanks .....lb. .14½- —
Salt, dms., works.....lb. .22 - .24
Anise, Bulgarian, bgs.....lb. .23 - .23½
Cyprus, bgs.....lb. .23½- .24
Mexican, bgs.....lb. .23 - .23½
Star .....lb. .21½- .22
Anisic aldehyde, bots.....lb. 2.85 - 2.90
Annatto paste, bxs.....lb. .34 - .39
seed, bgs.....lb. .06¼- .07
Anthracene, 80-85%, bbls., wks., lb. .55 - —
90%, bbls., wks.....lb. .65 - —
Anthraquinone, 99.5%, subl., bbls., lb. .65 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys.....lb. .17 - —
Metal, spot.....lb. .14 Nom.
Needle, brown, Bolivian, 67%.. lb. .16 - —
Chinese, black, 70%.....lb. .26 Nom.
Oxide, bgs., c.l., dlvd.....lb. .12 - .13
l.c.l., dlvd.....lb. .13½- .14½
Salt, 65%, dms.....lb. .28 - —
bbls. .....lb. .30 - —
White pigment, bgs.....lb. .11½- .14½
Antipyrene, bbls., kgs., ton lots, lb. 2.00 - —
smaller lots.....lb. 2.10 - 2.15
Apomorphine, bots.....oz.23.20 -28.70
Archil extract, con., bbls.....lb. No prices
double, bbls.....lb. No prices
triple, bbls.....lb. No prices
Areca nuts, powd., bbls.....lb. .11 - .12
Arecoline hydrobromide, bots.oz. 5.25 - 6.10
Argols, test 70% to 85%, basis 100%, 100 kgm., purity, 100 kilos. No prices
Arnica flowers, bls.....lb. 3.50 - 3.75
Root, bls. .....lb. 1.25 Nom.
Arrowroot, St. Vincent, powd. bgs..lb. .09 - .09¼
bbls. .....lb. .09¼- .10
Arsenic, metal, lump, cs.....lb. No price
Chloride (arsenous), cns.....lb. 4.85 - —
Iodide (arsenous), 5-lb. bots..lb. 5.58 - —
jars .....lb. 5.43 - —
Red, import, cs.....lb. No prices
Trioxide (see Acid, arsenous).
White, powd., kgs., c.l.....lb. .03½- —
l.c.l. .....lb. .04¼- —
Asafetida, cs.....lb. .36 - .37
powd., bbls., bxs.....lb. .54 - .55
Asbestine (see Talc, N. Y. fibrous).
Asbestos fiber, 5M, bgs., c.l., (20 tons), Canad. mines..ton.42.50 - —
5R, bgs., c.l. (20 tons), Canad. mines..ton.40.00 - —
6D, bgs., c.l. (30 tons) Canad. mines—ton.30.00 - —
7D, bgs., c.l. (30 tons), Canad. mines..ton.26.00 - —
7F, bgs., c.l. (30 tons), Canad. mines..ton.24.00 - —
7H, bgs., c.l. (30 tons), Canad. mines..ton.20.00 - —
7K, bgs., c.l. (30 tons), Canad. mines..ton.17.50 - —
7M, bgs., c.l., (30 tons), Canad. mines..ton.15.00 - —
Asphaltum, Manjak No. 10, crude, tons, f.o.b. plant.....lb. .04½- —
smaller lots, f.o.b. plant, lb. .05½- —
process form, bgs., 20 tons, f.o.b. plant..lb. .06 - —
smaller lots, f.o.b. plant, lb. .08 - —
California, dms., c.l., f.o.b. N.Y..ton.29.00 - —
l.c.l., f.o.b. N. Y.....ton.36.50 - —
Cuban A, bgs., c.l., f.o.b. N.Y., ton.60.00 - —
l.c.l., f.o.b. N. Y.....ton.90.00 - —
B, bgs., c.l., f.o.b. N. Y...ton.35.00 - —
l.c.l., f.o.b. N. Y.....ton.55.00 - —
Egyptian, bgs., c.l., f.o.b. N.Y., lb. .12 - —
l.c.l., f.o.b. N. Y.....lb. .15 - —
Gilsonite, brilliant black, bgs., c.l., Western shipt. points, ton.32.00 - —
seconds, bgs., c.l., Western shipt. points..ton.28.50 - —
selects, bgs., c.l., Western shipt. points..ton.32.00 - —
l.c.l., f.o.b. N. J. or N. Y., whse..ton.58.00 - —
jet, bgs., c.l., Western shipping points..ton.30.50 - —
Mexican, Texas, dms., c.l., refinery..ton.19.00 - —
l.c.l., refinery.....ton.21.00 - —
tanks, refinery.....ton.16.00 - —
Petroleum, cut-back, bbls., l.c.l., E. cst., refinery..gal. .13 - —
dms., c.l., E. cst., refinery, gal. .12 - —
tanks, Calif., refinery...ton.12.50 -14.00
East Coast, refinery...gal. .06 - .06½
Ill., Ind., refinery.....gal. .06½- —
N. Orleans, refinery...gal. .06 - —
Atropine, bots.....oz. 6.75 - 7.50
Sulphate, bots.....oz. 5.45 - 6.00

Alcohol—Bismuth Salts

B

Balm of Gilead buds, bgs.....lb. .40 - .45
Barberry bark, bgs.....lb. .55 - .60
Tree bark, bls.....lb. No Price
Barbital, cs.....lb. 2.50 - 2.60
sodium, cs.....lb. 3.75 - —
Barium carbonate, natural, 90% thru 200 mesh, bgs., c.l., works..ton.42.00 - —
precip., bgs., c.l., works..ton.45.00 - —
l.c.l., works.....ton.50.00 - —
bbls., c.l., works.....ton.50.00 - —
l.c.l., works.....ton.55.00 - —
Sulphur-free, c.l., works..ton.50.00 - —
l.c.l., works.....ton.55.00 - —
Chlorate, kgs.....lb. .45 Nom.
Chloride, CP, cryst., bbls....lb. .32 - —
tech., dom., cryst., bgs., c.l., Zone 1, dlvd., New England States, N. Y., N. J., Pa., Md., Va., Ohio, Mich., Ind., Wisc., Ill., Ky., and principal cities on west bank of Miss., north of Miss., north of Ark. line.....ton.77.00 - —
bbls., same basis..ton.79.00 - —
l.c.l., bgs., same basis ton.90.00 - —
bbls., same basis...ton.92.00 - —
Zone 2, bgs., c.l., dlvd., Tenn., N. & S. Carolina, Ga., Ala., Miss., Fla. ton.81.00 - —
bbls., same basis...ton.83.00 - —
l.c.l., bgs., same basis, ton.94.00 - —
bbls., same basis...ton.96.00 - —
Zone 3, bgs., c.l. Minn., Ia., Mo., Col., N. Mex., Idaho, Utah, Ariz. ton.87.00 - —
bbls., same basis...ton.89.00 - —
l.c.l., bgs., same basis, ton.100.00 - —
bbls., same basis...ton.102.00 - —
Zone 4, bgs., c.l. dlvd., Wash., Ore., Calif., Nev..ton.88.00 - —
bbls., same basis..ton.85.00 - —
l.c.l., bgs., same basis.ton.96.00 - —
bbls., same basis..ton.98.00 - —
Dioxide, dms., c.l., works...lb. .10 - —
l.c.l., same basis.....lb. .12 - .16
Fluoride, bbls.....lb. .18 Nom.
Hydrate (see Hydroxide).
Hydroxide, bbls., works.....lb. .06¼- .07
Iodide, bots.....lb. 4.77 - —
jars .....lb. 4.62 - —
Monoxide (see Oxide).
Nitrate, cks.....lb. .03½- .10¼
Oxide, ungrd., dms., c.l., works, lb. .09 - —
l.c.l., same basis.....lb. .10 - .12
grd., dms., l.c.l., works...lb. .11 - .15
Peroxide (see Dioxide).
Silicofluoride, bbls.....lb. .12 - .16
Sulphate, tech. (see Barytes and blanc fixe).
X-ray, bbls.....lb. .06¼- .10
kgs. .....lb. .10 - —
Barytes, dom., floated, bbls., c.l., St. Louis..ton.25.15 - —
l.c.l., same basis.....ton.26.15 - —
paper bags, c.l., St. Louis. ton.22.85 - —
l.c.l., same basis.....ton.23.85 - —
ex whse., New York....ton.21.50 - —
Southern off color, bulk mines, ton.12.00 - —
95.75%, bulk mines.....ton.16.00 - —
ore, bulk, mines.....ton. 7.00 - —
Cuban, crude, c.i.f.....ton.11.00 - —
German, grd., bbls., c.l., dock, t.s..ton. No price
l.c.l., ex whse.....ton. No price
ungrd., bulk, c.l., ex dock.ton. No price
Italian, grd., bbls., c.l., ex dock, t.s..ton. No price
l.c.l., ex whse.....ton. No price
Bauxite, bulk mines.....ton. 7.00 -10.00
Bay leaves (see Laurel leaves).
Bay rum, import, bbls.....lb. .82 - .90
Bayberry bark, bgs.....lb. .14 - .15
Belladonna leaves, bls.....lb. 1.75 - 1.80
Root, bls.....lb. 2.00 Nom.
Bentonite, 200 mesh bgs., Wyo., works..ton.11.00 - —
325 mesh, bgs., Wyo., works, ton.16.00 - —
Benzaldehyde, tech., cbys., dms., lb. .45 - .52
N.F. VI, dms., 50 to 100 lbs..lb. .85 - —
5 to 25 lbs.....lb. .90 - .95
Benzene (see Benzol).
Benzidin base, ¼s.....lb. .70 - —
Benzol, 90%, dms., returnable, works..gal. .19 - —
tankcars, frt. alld. E. of Omaha, gal. .14 - —
W. Coast, f.o.b. Minneapolis, Colo..gal. .14 - —
Benzoyl chloride, cbys.....lb. .33 - .36
Peroxide, pure, gran., fib. dms., works..lb. 1.95 - —
Benzyl acetate, f.f.c., cans...lb. .49 - —
dms. .....lb. .44 - —
Alcohol (see Alcohol, benzyl).
Benzoate, a.m.a., f.f.c., cans..lb. .84 - —
dms. .....lb. .80 - —
Chloride, 90.97%, refd., dms, lb. .19 - .21
Cinnamate, cns.....lb. 4.15 - 5.50
Formate, cns.....lb. 2.75 - 3.50
Benzylidineacetone, bots.....lb. 2.00 - 2.50
Berberine bisulphate, cns.....lb.16.75 -17.25
Hydrochloride, cns.....lb.16.75 -17.25
Sulphate, cns.....lb.16.75 -17.25
Berberis root, bls.....lb. .12 - .18
Betanaphthol, sublim., kgs....lb. .60 - —
tech., bbls., c.l., works....lb. .28 - —
l.c.l., bbls., works.....lb. .34 - —
Benzoate, fib. dms.....lb. 2.10 - —
kgs. .....lb. 2.00 - —
Betanaphthylamine, tech., kgs..lb. .51 - —
Beth root, bls.....lb. .19 - .21
Bismuth chloride, 5-lb. bots...lb. 3.20 - 3.35
Citrate, USP, VIII, 5-lb. bots., jars .....lb. 2.70 - —
Hydroxide, 5-lb. bots.....lb. 3.45 - —
cns. .....lb. 3.35 - —
Metal, ton lots.....lb. 1.35 - —
Nitrate, cryst., 5-lb. bots...lb. 1.45 - —
cns. .....lb. 1.30 - —
Oxychloride, 5-lb. bots.....lb. 3.19 - —
cns., kgs.....lb. 3.10 - —
Subbenzoate, 5-lb. bots.....lb. 3.30 - —
fib. dms.....lb. 3.15 - —
Subcarbonate, bots., cns.....lb. 1.82 - 2.00
fib. dms.....lb. 1.78 - 1.70
X-ray, 5-lb. bots.....lb. 3.02 - —
fib. dms.....lb. 2.96 - —
Subgallate, bots., cns.....lb. 1.77 - 2.00
fib. dms.....lb. 1.62 - 1.71
Subiodide, cns.....lb. 4.01 - —
fib. dms.....lb. 3.98 - —
Subnitrate, powd., bots., cns.lb. 1.57 - 1.80
fib. dms.....lb. 1.48 - 1.61
Subsalicylate, 90-95%, bots..lb. 2.50 - —
bbls., fib. dms.....lb. 2.30 - —

Bis. Sulphocarb.—China Clay

Bismuth, sulphocarbolate, 5-lb. bots..lb. 7.61 - —
5lb. dms.....lb. 8.50 - —
Trioxide, powd., 6-lb. bots...lb. 2.56 - —
cns.....lb. 2.45 - —
Bismuth-ammonia, citrate, USP, powd., 25-lb. dms..lb. 3.40 - —
5-lb. cns.....lb. 3.45 - 3.50
Black, acetylene, c.l., works, duty paid..lb. .14 - —
Bone, 1A, bbls., bgs., c.l., frt. alld. E..lb. .17 - —
l.c.l., frt. alld. E.....lb. .17½ - —
3, bbls., bgs., c.l. frt. alld. E., lb. .10½ - —
l.c.l., frt. alld. E.....lb. .11 - —
4, bbls., c.l., frt. alld. E..lb. .09½ - —
l.c.l., frt. alld. E.....lb. .10 - —
5, bbls., bgs., c.l., frt. alld. E., lb. .08½ - —
l.c.l., frt. alld. E.....lb. .09 - —
6, bbls., bgs., c.l., frt .alld. E. lb. .06½ - —
l.c.l., frt. alld. E.....lb. .07 - —
7, bbls., bgs., c.l., frt. alld. E., lb. .10 - —
l.c.l., frt. alld. E.....lb. .10½ - —
8, bbls., bgs., c.l., frt. alld. E., lb. .11 - —
l.c.l., frt. alld. E.....lb. .11½ - —
Bone black prices on Pacific Coast are 1c. per lb. higher, ex dock or ex whse.
Carbon, regular, uncompressed, bgs., c.l., f.o.b. plants..lb. .03075 - —
f.o.b. North Atlantic ports..lb. .03950 - —
l.c.l., bgs. or cartons, f.o.b. whse..lb. .07025 - —
dlvd..lb. .07025 - —
beads, compressed, bgs., c.l., f.o.b. plants..lb. .02925 - —
f.o.b. North Atlantic ports..lb. .02925 - —
l.c.l., bgs. or cartons, f.o.b. whse..lb. .06525 - —
dlvd..lb. .06525 - —
bulk, cars, c.l., f.o.b. plants, lb. .02¾ - —
f.o.b. New York harbor..lb. .0363 - —
All carbon black prices are for delivery in August-September.
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, 1, pure, bbls., l.c.l., works..lb. .08¾ - —
2, bbls., l.c.l., works.....lb. .08 - —
Ivory, genuine, bbls.....lb. .30 - —
Lamp, dom., 1, ctns., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
2, ctns., c.l., works.....lb. .09 - —
l.c.l., works.....lb. .10 - —
2A, ctns., c.l., works.....lb. .11 - —
l.c.l., works.....lb. .12 - —
3, ctns., c.l., works.....lb. .13 - —
l.c.l., works.....lb. .14 - —
4, ctns., c.l., works.....lb. .15 - —
l.c.l., works.....lb. .16 - —
5, ctns., c.l., works.....lb. .17 - —
l.c.l., works.....lb. .18 - —
6, ctns., c.l., works.....lb. .24 - —
l.c.l., works.....lb. .25 - —
7, ctns., c.l., works.....lb. .34 - —
l.c.l., works.....lb. .35 - —
vine, A, bbls., works or N. Y., lb. .04½ - —
B, bbls., works or N. Y..lb. .05½ - —
works..lb. .13½ - .15½
dms., c.l., frt. alld.....lb. .09 - —
l.c.l., frt. alld.....lb. .09½ - —
Black dyes are listed under Dyes.
Black Haw, root bark, bls....lb. .40 - .45
Tree bark, bls.....lb. .16 - .17
Black Indian hemp root, bls..lb. .22 - .25
Blanc fixe, dry, by-product, bgs., c.l., works..ton.60.00 - —
l.c.l., works.....ton.62.50 - —
direct process, bgs., c.l., works, frt. equaled..ton.70.00 - —
l.c.l., same basis..ton.75.00 -90.00
pulp, 66⅔%, bbls., c.l., works, ton.35.00 - —
l.c.l., works.....ton.42.50 - —
Bleaching powder, dms., c.l., works..100 lbs. 2.00 - 2.65
l.c.l., works.....100 lbs. 2.25 - 2.35
Blood, dried, dom., 16-16½ ammon., bgs., f.o.b. N. Y., unit-ton. 2.75 - —
high-grade, gr., 16-17 ammon., bulk, f.o.b. Chicago, unit-ton. 3.00 - —
import, bgs., c.i.f. ports, ship..unit-ton. 2.50 - —
soluble (see Albumen, blood)
Bloodroot, bls.....lb. .11 - .12
Blue, alkali, toner, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. river, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis, lb. .80 - .90
Alkali blue toner prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Bronze, bbls., same basis, contracts..lb. .33 - —
Celestial, bbls.....lb. .10 - .12
Chinese, bbls., same basis, contracts..lb. .33 - —
Cobalt, genuine, 1-kilo pkg..lb. 4.90 - —
Imitation (see Blue, ultramarine).
Copper, phthalocyanin, bbls., f.o.b. works, frt. alld..lb. 3.80 - 3.75
Milori, bbls., same basis, contracts..lb. .33 - —
Molybdated, Victoria, same basis, contracts..lb. 3.15 - —
Peacock, concentrated, same basis, contracts..lb. .32 - —
regular, same basis, contracts, lb. .35 - —
Potash, dom., bbls., same basis, contracts..lb. .42 - —
Prussian, bbls., same basis, contracts..lb. .33 - —
Tungstated, peacock, kgs....lb. 3.75 - —
Victoria, kgs.....lb. 3.16 - —
Ultramarine, dry or pulp, cobalt grades, bbls., works, frt. equald..lb. .33 - .34
jobbing grades, bbls., same basis..lb. .11 - —
regular grades, bbls., same basis..lb. .16 - .27
Blue, ultramarine, dlvd., ex whse., is 1c. higher; Pac. Coast, ex whse., 2c. higher; 100-lb. kgs., 1c. above bbls., 25-lb. boxes 5c. above bbls.
Victoria, ink toner, bbls., same basis, alkali toner..lb. 1.33 - —
Blue dyes are listed under Dyes.
Blue mass, USP, cns., tubs..lb. 1.67 - 1.84
powd., cns., dms.....lb. 1.60 - 1.62
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Bone, raw, dom., 4½% ammon., 50% phos., bgs., f.o.b. Chicago..ton.30.00 -32.00
import, bgs., c.i.f. ports..ton.32.00 -32.50
meal, steamed, dom., 3% ammon., 50% phos., bgs., f.o.b. Chicago..ton.33.00 -35.00
import, bgs., c.i.f. ports..ton.31.50 - —
Phosphate, recip. (see Calcium phosphate dibasic, precip.).
steamed, dom., 1½% ammon., 60% phos., bgs., f.o.b. Chicago..ton.40.00 - —
import, 1% ammon., 65-70% phos., bgs., c.i.f. ports...ton.37.50 - —
Boneset leaves, bls.....lb. .08½ - .09
Borage flowers, bls.....lb. .45 - .48
Borax, tech., 99½% gran., bulk, c.l., frt. alld..ton.40.50 - —
bgs., c.l., frt. alld.....ton.43.00 - —
ton lots, ex whse....ton.54.00 - —
less than ton lots, ex whse..ton.59.00 - —
bbls., c.l., frt. alld.....ton.53.00 - —
ton lots, ex whse....ton.64.00 - —
less than ton lots, ex whse..ton.69.00 - —
bgs., c.l., frt. alld...ton.48.00 - —
ton lots, ex whse....ton.59.00 - —
less than ton lots, ex whse..ton.34.00 - —
bbls., c.l., frt. alld....ton.58.00 - —
ton lots, ex whse....ton.69.00 - —
less than ton lots, ex whse..ton.74.00 - —
USP, $15 per ton higher.
Bordeaux mixture, dms., c.l., dealers..lb. .ef - —
l.c.l., dealers, dms..lb. .11½ - —
Bordeaux mixture prices are works or whse. basis, frt. alld. to dest. in lots 96 lbs. and over, no trucking or freight allowances for works or warehouse pick-ups.
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purif., cs., 1,000 lbs., frt. alld. E. of Rockies..lb. .25 - —
single pkg., same basis..lb. .30 - —
Bromoform, USP, 100-lb. lots, bots..lb. 1.50 - —
cbys.....lb. 1.42 - —
Bromostyrol.....lb. 3.50 - 3.75
Bronze powder, aluminum (see A).
Gold, litho, cns., dms., over 10 lbs..lb. .60 - .65
moulding, cns., dms., over 10 lbs..lb. .80 - 1.00
printing ink, cns., dms., over 10 lbs. .85 - 1.20
radiator, cns., dms., over 10 lbs..lb. .45 - .50
Broomtops, bls.....lb. .12 - .13
Brown, iron oxide, pure precip., cks., f.o.b. N.Y..lb. .11¼ - —
Metallic, iron oxide, bbls., wks. lb. .02¾ - —
paper bgs., c.l., works.....lb. .02¼ - —
Sienna, burnt, American, bbls., f.o.b. works..lb. .03¼ - —
Italian, Group 1, bbls., f.o.b. N.Y. or Pa. points..lb. .13 - —
2, bbls., same basis....lb. .12 - —
3, bbls., same basis....lb. .11 - —
4, bbls., same basis....lb. .09½ - —
5, bbls., same basis....lb. .09¼ - —
6, bbls., same basis....lb. .09 - —
7, bbls., same basis....lb. .08¾ - —
8, bbls., same basis....lb. .08½ - —
9, bbls., same basis....lb. .08 - —
10, bbls., same basis....lb. .08 - —
11, bbls., same basis....lb. .07½ - —
12, bbls., same basis....lb. .07 - —
13, bbls., same basis....lb. .06¾ - —
14, bbls., same basis....lb. .06½ - —
raw, American, bbls., f.o.b. works..lb. .02¾ - —
Italian, Group 1, bbls., f.o.b. N.Y. or works..lb. .13½ - —
2, bbls., same basis....lb. .12 - —
3, bbls., same basis....lb. .12½ - —
4, bbls., same basis....lb. .10½ - —
5, bbls., same basis....lb. .10½ - —
6, bbls., same basis....lb. .09½ - —
7, bbls., same basis....lb. .09½ - —
8, bbls., same basis....lb. .08 - —
9, bbls., same basis....lb. .07½ - —
10, bbls., same basis....lb. .06¾ - —
11, bbls., same basis....lb. .05¾ - —
Umber, American, bbls., works, lb. .03½ - —
Turkey, bbls., l.c.l., f.o.b. Bethlehem, Easton, Pa., N.Y.....lb. .04½ - —
St. Louis.....lb. .05 - —
l.c.l., ex car Los Angeles, Portland, San Francisco, Seattle..lb. .05½ - —
ex whse, Los Angeles, Portland, San Francisco, Seattle..lb. .05¾ - —
Boston.....lb. .04¾ - —
Chicago, Indianapolis, New Orleans..lb. .05½ - —
Kansas City.....lb. .05¾ - —
Minneapolis.....lb. .0535 - —
Pittsburgh.....lb. .05 - —
Vandyke, bbls., l.c.l.....lb. No prices
Walnut crystals, bbls.....lb. .06½ - —
Brucine, 100 oz., cns.....oz. .15 - —
Sulphate, 100 oz., cns.....oz. .12 - —
Bryonia root, bls.....lb. .28 - .30
Buchu leaves, bls.....lb. .62 - .65
Buckthorn bark, true, bls.....lb. No prices
cut and sifted, bbls..lb. .85 - .90
Berries, bgs.....lb. .35 - .40
Burdock root, bls.....lb. .35 - .40
Burgundy pitch, dom., dms...lb. .06 - .06½
Butternut bark, bls.....lb. .07 - .08
Butyl acetate, norm., cns., wks. lb. .14½ - .16½
dms., c.l., frt. alld.....lb. .10 - —
l.c.l., frt. alld.....lb. .10½ - —
tanks, frt. alld.....lb. .09 - —
tankwagons, frt. alld...lb. .09½ - —
secondary, dms., c.l., frt. pd. E. of Miss. R..lb. .08½ - —
dms., l.c.l., same terms..lb. .09¾ - —
tanks, same terms.....lb. .07½ - —
Alcohol (see Alcohol):—
Aldehyde, dms., c.l. works...lb. .15½ - —
l.c.l., works.....lb. .16½ - .17¼
tanks, works.....lb. .14½ - —
Carbinol (see Carbinol).
Chloride, normal, dms., c.l., works..lb. .20 - —
l.c.l.....lb. .23 - —
Crotonate, normal, 55-gal. dms., dlvd..lb. .35 - —
5-gal. cns.....lb. .75 - —
1-gal. cns.....lb. 1.00 - —
Ether (see under Ether).
Lactate, dms.....lb. .23½ - —
Propionate, dms., dlvd.....lb. .16½ - .17
tanks.....lb. .15½ - —
Stearate, dms.....lb. .23½ - —
Butyric ether, bots.....gal. 6.50 - 6.95
cns., works.....lb. .65 - .70
dms., frt. alld. Mex. N. Y.....lb. .60 - —
Butane, coml., 16-24° tanks, group 3, gal. .03½ - .06

C

Cadmium, bromide, 25-lb. jars, 80 lbs. or more..lb. 1.56 - —
single, jars.....lb. 1.61 - —
5-lb. bots.....lb. 1.75 - —
Cyanide, 25-lb. bots., dlvd...lb. 3.00 - —
25-lb. cks., dlvd.....lb. 3.50 - —
Iodide, 5-lb. bots.....lb. 4.19 - —
25-lb. cans.....lb. 4.03 - —
Lithopone (see Yellow).
Metal, pat., shapes, cs.....lb. .55 - —
ingots or sticks.....lb. .50 - —
Red (see Red).
Selenide (see Red).
Sulphite (see Yellow).
Caffeine, 10,000 lbs. or more, 100 lb. dms..lb. 2.90 - —
25 lb. dms.....lb. 2.63 - —
10 lb. cns.....lb. 2.45 - —
2,000 lbs. or more, 100-lb. dms..lb. 2.65 - —
25 lb. dms.....lb. 2.63 - —
10 lb. cns.....lb. 2.70 - —
1,000 lbs. or more, 100 lb. dms., lb. 2.70 - —
25 lb. dms.....lb. 2.73 - —
10 lb. dms.....lb. 2.75 - —
100 lbs. or more, 100-lb. dms..lb. 2.80 - —
25 lb. dms.....lb. 2.83 - —
10 lb. cns.....lb. 2.85 - —
less than 100 lbs., 10 lb. cns...lb. 3.15 - —
5 lb. cns.....lb. 3.10 - 3.25
Citrated, bots.....lb. 2.30 - 2.35
Hydrobromide, bots.....lb. 5.29 - 5.37
Calabar beans, bgs.....lb. .25 - .30
Calamus root, peeled, N. F., cs., lb. No prices
bleached, bls.....lb. 1.00 - 1.25
Calcium acetate, bgs., dlvd., 100 lbs. 1.90 - —
Arsenate, bgs., c.l.....lb. .06½ - —
l.c.l.....lb. .06¾ - —
Southern cotton states, dms., c.l..lb. .06 - —
l.c.l.....lb. .06¼ - —
Calcium arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. or over; no frt. or truck allowances for plant or whse. pick-up.
Bromide, 100 lbs., works, frt. equaled..lb. .65 - —
50 lbs., works.....lb. .67 - —
25 lbs., works.....lb. .70 - —
Carbide, dms., c.l., dlvd.100 lbs. 4.75 - —
l.c.l., f.o.b. warehouse.100 lbs. 4.85 - —
Carbonate (see Chalk and Whiting).
Chloride, flake, dms., 77-88%, dms., c.l., dlvd..ton.30.50 -35.00
l.c.l., 1 ton or over, dlvd, 100 lbs. 1.63 - 2.25
liquor, basis 40%, tanks, works..ton. 7.50 - —
solid, dom., 73-75%, dms., c.l., dlvd..ton.19.00 -23.00
l.c.l., 1 ton or over, dlvd, 100 lbs. 1.53 - 2.25
Gluconate, USP, gran., 150-lb. bbls..lb. .50 - —
dms.....lb. .55 - .57
cns.....lb. .65 - .55
Powd., 2c. per lb. higher.
Glycerophosphate, tb., dms., 1,000-lb. lots..lb. 1.10 - —
smaller lots.....lb. 1.25 - —
cns., 25 lbs.....lb. 1.50 - —
Hypophosphite, cns.....lb. .62 - .67
Iodide, bots., jars.....lb. 4.04 - 4.19
Lactate, USP, bbls., 200 lbs..lb. .24 - .25
Mandelate, dense, dms.....lb. 2.15 - 2.30
fluffy, dms.....lb. 2.00 - 2.15
Nitrate, bgs., to fert. mfrs., ex vessel Atlantic or Gulf ports, ton. No prices
Palmitate, bbls.....lb. .22 - .24
Phosphate, dibasic, precip., 35-40% P_2O_5, bgs., c.l.f. Atlantic ports, shipt. unit-ton. No prices
tribasic, c.l., bbls., works..lb. .0635 - —
l.c.l., bbls.....lb. .0706 - —
Resinate, precip., bbls., 1 ton lots, lb. .13 - —
smaller lots.....lb. .14 - —
Stearate, precip., bbls., ctns., c.l..lb. .20½ - —
l.c.l., ton.....lb. .22½ - —
Sulphate (see Gypsum).
Sulphide, 70%, CaS, bgs., c.l., works..ton.46.00 - —
80%, CaS, bgs., c.l., wks..ton.51.00 - —
luminous, dom., tins, works, 100 lbs..lb. 1.25 - —
Sulphocarbolate, bbls., 200 lbs.lb. .47 - .48
kgs., 100 lbs.....lb. .50 - —
Calendula flowers, bls.....lb. .85 - .90
Calomel, bbls., fib., dms., kgs., 50 lbs. or more..lb. 2.70 - —
Camphor, natural, powd., cs..lb. .82 - .83
slabs, cs.....lb. .82 - .83
tablets, tins.....lb. .87 - .88
synth., dom., tech., bbls., contract, 2,000 lbs. or more, works..lb. .36 - —
smaller lots, works.....lb. .41 - —
USP, or import, gran., powd., bbls., 2,000-lb. lots..lb. .60 - —
1,000-lb. lots.....lb. .61 - —
smaller lots.....lb. .62 - —
tablets, 2,000-lb. lots...lb. .73 - —
1,000-lb. lots.....lb. .74 - —
smaller lots.....lb. .75 - —
Monobromate, bxs., kgs.....lb. 2.00 - 2.05
Canada balsam (see Fir balsam).
Canary seed, Argentine, bgs...lb. .0330 - .0350
Morocco, bgs.....lb. .04 - .04½
Turkish, bgs.....lb. .0340 - .0360
Canella alba bark, bls.....lb. .45 - .50
Cantharides, Chinese, cs.....lb. 1.50 - 1.60
powd., bxs.....lb. 1.75 - 1.85
Russian, cs.....lb. 3.00 - 3.05
powd., bxs.....lb. 3.25 - 3.30
Capsicum (see Pepper, red).
Caraway, Dutch, bgs.....lb. .50 - .52
Carbazole, 95%, dms., ton lots, works..lb. .70 - —
smaller quantities, works...lb. .80 - —
98%, dms., ton lots, works...lb. .75 - —
smaller quantities, works...lb. .85 - —
Diethyl, dms., works.....lb. .90 - —
small lots, works.....lb. .75 - —
Carbinol, butyl, norm. (see Amyl alcohol, normal).
Dimethylethyl (see Amyl alcohol, tertiary).
Isobutyl (see Alcohol, isoamyl).
Carbon bisulphide, 55-gal. dms., c.l., frt. alld. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾ - —
5-gal. dms., c.l., same basis, lb. .07 - .07½
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls.....lb. .06 - .08
Tetrachloride, Zone 1, 52½-gal. dms., c.l., frt. alld..gal. .06½ - —
l.c.l., frt. alld.....gal. .73 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .90 - —
l.c.l., frt. alld.....gal. 1.00 - —
Zone 2, 52½-gal. dms., c.l., frt. alld..gal. .73 - —
l.c.l., frt. alld.....gal. .80 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .97 - —
l.c.l., frt. alld.....gal. 1.07 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..gal. .87 - —
l.c.l., frt. alld.....gal. .96 - —
Carbon tetrachloride, Zone 3, 5 or 10-gal. dms., c.l., frt. alld..gal. 1.10 - —
l.c.l., frt. alld.....gal. 1.20 - —
Zone 4, 52½-gal. dms., c.l.gal. .83 - —
l.c.l.....gal. .90 - —
5 or 10-gal. dms., c.l..gal. 1.07 - —
l.c.l.....gal. 1.17 - —
All prices on carbon tetrachloride are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. cars, L. A. Cal.; S. F. Cal.; Portland, Ore., and Seattle, Wash. All packages are inclusive and not returnable. Zone 1, includes the following States:—Me., N. H., Vt., Mass., Ct., R. I., N. Y., N. J., Pa., Md., Del., Va., W.Va., N. C., Tenn., O., Ind., Mich., Ill., Wis., Minn., Ia., Mo., also the river towns of Burlington, Ia., and Kansas City, Kan. Zone 2 includes N. D., S. D., Neb., Kan., Okla., Ark., La., Miss., Ala., Ga., S. C. and Fla. Zone 3 includes that portion of Montana east of Billings and the states of Wyoming, Colo., N. M. and Texas. Zone 4 includes Wash., Idaho, Montana, Ore., Cal., Nev., Utah and Arizona.
Cardamom, bleached, cs.....lb. 1.15 - 1.50
decorticated, cs.....lb. .90 Nom.
green, Ceylon, afloat, bgs...lb. .95 - .96
Carob bean flour (see Gum, Locust bean).
Carvol, bots.....lb. 4.00 - 4.25
Cascara sagrada bark, bulk....lb. .17 - .18
Case - hardening mixture, 30% lump, dms., l.c.l..lb. .09 - —
Casein, dom., 20-30 mesh, bgs., c.l., dlvd..lb. .12½ - .13½
5 tons, works.....lb. .13 - .14
smaller lots, works.....lb. .13½ - .14
80-100 mech, bgs., c.l.....lb. .12¾ - .13¾
5 tons, works.....lb. .13¼ - .14¼
smaller lots, works.....lb. .13¾ - .14¾
import, Argent., 20-30 mesh, bgs., c.i.f., duty paid..lb. .12½ - —
80-100 mesh, bgs., c.l., duty paid..lb. .12½ - .13¾
French, 30 mesh, bgs., c.l., duty paid..lb. No prices
New Zealand, 20-30 mesh, c.l., bgs., duty paid..lb. No prices
Cassia, Batavia, No. 1, thin quill, bls..lb. .16½ - .17
No. 1, regular, bls.....lb. .16 - .16½
shortsticks, bls.....lb. .12½ - .12¾
broken, bls.....lb. .10½ - .11
China, buds, bags.....lb. .12 - .12½
Rolls, select, bls.....lb. .11 - .11½
broken, extra, bls.....lb. .09¾ - .10¼
Saigon, No. 1, 4-10-4, bls....lb. .18¾ - .19¼
10-6-2, bls.....lb. .19¼ - .19¾
all thin, bls.....lb. .21 - .21½
Cassia fistula, bskts.....lb. .15 - .16
Castile soap, Italian, white, bars, 40-lb. cases..case.14.00 - —
powd., bbls.....lb. .33 - .36
Castoreum, nat., cns.....lb.15.00 -18.00
synth., bots.....lb.19.00 - —
Castor beans, Brazilian, ship't., c&f, N.Y...ton.61.00 - —
Oil (see Oil, castor).
Pomace, dom., 6½% ammon., bgs., c.l., works..ton.15.00 - —
import, bgs., c.i.f. ports, shipment..ton. No prices
Celery seed, French, bgs.....lb. .65 - .67
Indian.....lb. .35 - .36
Celluloid scrap (see Pyroxylin scrap).
Cellulose, acetate, flake, gran., frt. alld..lb. .30 - —
Acetate-butyrate, high (20-40% bntyryl content), 100-lb. ctn., 5,000 lbs. and up, frt. alld. 1,000-4,900 lbs., frt. alld..lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkgs, works.....lb. .48 - —
low (up to 9.9%), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .41 - —
1,000-4,900 lbs., frt. alld.lb. .42 - —
100-900 lbs., frt. alld....lb. .43 - —
smaller pkgs, works.....lb. .44 - —
medium (10-10.9%), 100-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .42 - —
1,000-4,900 lbs., frt. alld.lb. .44 - —
100-900 lbs., frt. alld....lb. .45 - —
smaller pkgs, works.....lb. .46 - —
Acetate - propionate, high (20-40% propionyl content), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkgs, works.....lb. .48 - —
low (up to 9.9%), 100-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .41 - —
1,000-4,900 lbs., frt. alld.lb. .42 - —
100-900 lbs., frt. alld....lb. .43 - —
smaller pkgs, works.....lb. .44 - —
medium (10-19.9%), 100-lb. ctns., 5,000 lbs. and up, frt. alld..lb. .43 - —
1,000-4,900 lbs., frt. alld.lb. .44 - —
100-900 lbs., frt. alld....lb. .45 - —
smaller pkgs, works.....lb. .46 - —
Triacetate, flake, frt. alld..lb. .30 - —
Cerium hydrate, dms., works..lb. .60 - —
oxalate, USP, bbls., works..lb. .35 - —
kgs., works.....lb. .37 - —
Chalk, precip., extra light, light, heavy, bgs., 50 lbs., c.l., f.o.b. works..lb. .03¾ - —
cks., 250 lbs., c.l., f.o.b. works..lb. .03¼ - —
Chamomile flowers, Hungarian, genuine, cs...lb. 1.00 - 1.25
Roman, bls.....lb. 3.25 Nom.
Charcoal, softwood, gran., bgs., c.l., dlvd., Ala., Del., Ga., Ky., Md., Miss., N. J., N. Y., N. C., S. C., Tenn., Va., W. Va...ton.36.40 - —
Colo.....ton.32.00 - —
Conn., Me., Mass., N. H., R. I., Vt..ton.35.80 - —
Ill. (except river point), Minn., Neb., Wis..ton.27.00 - —
Indiana.....ton.31.00 - —
Ill. (river points), Mo., Okla., Tex. (except El Paso), Ia.....ton.25.00 - —
Kansas, El Paso, Tex., ton.26.00 - —
Michigan.....ton.32.80 - —
Ohio.....ton.32.80 - —
Penn.....ton.34.80 - —
Utah.....ton.36.00 - —
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, clarif., 25% tan., bbls., c.l., works..lb. .02¼ - —
l.c.l., bbls., works.....lb. .02¾ - —
tanks, works.....lb. .01¾ - —
Chillies (see Pepper, red).
China clay, dom., dry-grd., air-float, 99.75%, 300 mesh, bgs., c.l., works..ton. 9.50 - —
l.c.l., works.....ton.10.00 -16.00
bulk, c.l., works..ton. 7.60 - —
200 mesh, bgs., c.l., works..ton.8.50 - —
l.c.l., works.....ton. 9.50 -15.80
wet-grd., silk-bolt, 99.9%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works, ton.12.50 - —

China clay, import, white, lump, bulk, c.l., ex dock, Balto., Boston, Norfolk, Phila..ton.18.00 -25.00
powd., cks., l.c.l., ex whse., ton.45.00 - —

Chloral hydrate, bots., 1,000 lbs., lb. .93 - 1.02
500 lbs. lb. .96 - 1.05
100 lbs. lb. .98 - 1.07
25 lbs. lb. 1.00 - 1.09
1-10 lbs. lb. 1.05 - 1.13
dms., 1,000 lbs. lb. .90 - —
500 lbs. lb. .93 - —
100 lbs. lb. .95 - —

Chlorinated rubber, standard, c.l., ctns., works..lb. .32 - —
100 lbs., ctns. lb. .35 - —
smaller lots. lb. .38 - —

Chlorine, liq., cyls., c.l., dlvd., N. Y..lb. .06¼- —
contracts, dlvd., N. Y...lb. .05¼- —
l.c.l., dlvd., N. Y. lb. .07¼- —
tanks, single units, works, frt. equald..100 lbs. 1.75 - —
multiple unit, 3 or over, works, frt., equald., 100 lbs. 1.90 - —
2, works, frt. equald., 100 lbs. 2.40 - —
1, works, frt. equald., 100 lbs. 2.90 - —

Chloracetophenone, tins, works.lb. 3.00 - 3.50

Chloroform, tech., 650-lb. dms.lb. .20 - —
100-lb. dms. lb. .22 - —
50-lb. dms. lb. .23 - —
USP, 650-lb. dms. lb. .30 - —
100-lb. dms. lb. .32 - —
50-lb. dms. lb. .35 - —

Chloropicrin, com'l, 180-lb. cyls., frt. alld..lb. .80 - —
100-lb. cyls., frt. alld..lb. .85 - —
25-lb. cyls., works. lb. 1.00 - 1.15
1-lb. bot., case 12, works, lb. 1.25 - —

Chrome acetate, powd., 24%, bbls., dlvd..lb. .13¼- —
solut. 8¼%, cs., bbls. lb. .05¾- —
Cake, bulk, c.l., works...ton.16.00 - —
Green (see Green, chrome).
Oxide (see Green, chrome).
Sulphate, pearls, dms., 100 lbs., lb. .42 - —
powd., dms., 100 lbs. lb. .45 - —
scale, dms., 100 lbs. lb. .45 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).

Chrysarobin, 5-lb. bot. ...lb. 5.00 - —

Cinchona bark, quill, USP, 10 in., medium, cs..lb. .85 - .90
20 in., thick, cs. lb. .85 - .90
20 in., medium, cs. lb. .85 - .90
USP, broken quill, red, bgs., lb. .20 - .21
yellow, bgs. lb. .20 - .21

Cinchonidine, small crys., cns., 100 ozs..oz. .59 - —
Sulphate, N.F., cns.100 ozs..oz. .53 - —

Cinchonidine buyers must pay a surcharge of 7c. per oz. to cover present war risk insurance, higher ocean freight rates and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchonine, small crys., cns., 100 ozs..oz. .62 - —
large cryst., cns.100 ozs..oz. .66 - —
Sulphate, N.F., cns.100 ozs..oz. .42 - —

Cinchonine buyers must pay a surcharge of 7c. per oz., to cover present war risk insurance, higher ocean freight rates and other expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchophen, USP, 25-lb. fib. dms., lb. 3.60 - —
1 and 5-lb. bots. lb. 3.70 - 3.80
100 lbs., dms. lb. 3.50 - —

Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, f.c.c., cbys. lb. .85 - .90

Cinnamon, Ceylon, 2 bls. lb. .15½- .16¼
3 bls. lb. .15½- .16

Citral, bots., cns. lb. 1.40 - 2.10

Citrine ointment, jars. lb. .95 - .97

Citronellal, bots., dms. lb. .75 - .80

Citronellol, bots., dms. lb. 1.60 - 1.85

Clove, Amboyna, bgs. lb. .23 - .23½
Madagascar lb. .16¼- .16¾
Zanzibar lb. .16 - .16½

Clover tops, red, bgs. lb. .35 - .40
dom., bgs. lb. .30 - .35

Coaltar, coal-gas, crude, bbls., c.l., works..bbl. 7.50 - 7.75
l.c.l., works. bbl. 8.25 - 8.50
tanks, works. gal. .07½- .09
refd., bbls., c.l., works. bbl. 8.00 - 8.25
l.c.l., works. bbl. 8.75 - 9.00
tanks, works. gal. .08½- .10
water-gas, crude, dms., c.l., works..dm. 7.50 - —
l.c.l., works. dm. 8.25 - —
refd., dms., c.l., works. dm. 8.00 - —
l.c.l., works. dm. 8.75 - —

Cobalt acetate, bbls., kgs., dlvd., lb. .30½- —
Carbonate, powd., bgs., works, lb. 1.59 - —
Chloride, kgs., works. lb. .35 - —
Hydrate, bbls. lb. 1.29 - —
Linoleate, paste, 8%, dms. lb. .31 - —
solid, 8¼%, bbls. lb. .33 - —
Oleate, bbls. lb. .25 Nom.
Oxide, black, kgs. lb. 1.84 - —
Resinate, fused A, bbls. lb. .13½- —
1 %, cobalt oxide, bbls. lb. .13 - —
2 %, cobalt oxide, bbls. lb. .14 - —
3½%, cobalt oxide, bbls. lb. .17½- —
precip., dms., dlvd. lb. .24 - —
Sulphate, dms. lb. .25 - —

Cocaine, hydrochloride, 100 cns., cns..oz. 9.75 - —

Cochineal, gray, bgs. lb. .37 - .38
Teneriffe, silver, bgs. lb. .38 - .39

Cocoa butter, bulk, c.l., bgs...lb. .19 - —

Cocillana bark, bgs. lb. .25 - .30

Codeine, cns., 100 ozs. oz. 11.70 - —
Hydrochloride, cns., 100 ozs..oz. 10.50 - —
Phosphate, cns., 100 ozs. oz. 9.00 - —
Sulphate, cns., 100 ozs. oz. 9.50 - —

Codliver oil (see Oil, codliver).

Cohosh, black, root, bls. lb. .07 - .08
Blue, root, bls. lb .07 - .08

Colchicine, bots., cns. oz.22.00 -25.00

Colchicum seed, bgs. lb. 2.50 Nom.

Collodion, USP, dms., 325 lbs. lb. .12¾- —
cns., 25 lbs. lb. .16 - —
flexible, USP, dms., 325 lbs. lb. .14½- —
cns., 25 lbs. lb. .18 - —

Colocynth pulp, bls. lb. .55 - .56
Colombo root, bls. lb. .15 - .16
Coltsfoot leaves, bgs. lb. .35 - .40
Condurango bark, bgs. lb. .11 - .12
Conium leaves, bls. lb. .30 - .32
Copaiba balsam, Para, cns. lb. .27 - .28
S.A., USP, cns. lb. .29 - .30

Copper acetate, normal, bbls., dlvd. lb. .32 - —
smaller containers, dlvd. lb. .34 - —
Carbonate, 52-54%, bbls. lb. .16¾- —
Chloride, cryst., bbls. lb. .16 - —
Cyanide, tech., bbls. lb. .24 Nom.
Iodide, bots. lb. 5.15 - 5.19

Copper, metal, electrolytic. lb. .12 - —
Nitrate, cryst., bbls. lb. .16¼- —
Oleate, precip., bbls. lb. .29 - —
Oxide, black, 79-80%, bbls., tons, works..lb. .18 - —
Red, com'l, 80-89%, kgs., f.o.b. N.Y..lb. .20½- —
Resinate, precip., bbls. lb. .15 - .16
Sulphate, 99% cryst., bbls., c.l., f.o.b. works..100 lbs. 4.75 - —
l.c.l., 16-80 bbls., same basis, 100 lbs. 4.90 - —
6-15 bbls., same basis, 100 lbs. 5.10 - —
1-5 bbls., same basis, 100 lbs. 5.35 - —
monohydrated, dms., c.l., dealers, f.o.b. works..100 lbs. 9.80 - 9.55
l.c.l., dealers. 100 lbs.10.30 -10.55

Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
bbls., c.l., works. ton.20.00 - —
l.c.l., 25 or over, works, 100 lbs. 1.55 - —
1-4, works. 100 lbs. 2.00 - —
bulk, c.l., works. ton.14.00 - —

Copra, Coast, ship. lb. .0180 Nom.
Coriander, bgs. lb. .06¾- .07¼
bleached, bgs. lb. .09 - .09½

Corn sugar, tanners', chipped, bgs., c.l., dlvd..100 lbs. 3.95 - —
slabs, bbls., c.l. 100 lbs. 3.31 - —
solid, bbls., c.l. 100 lbs. 3.43 - —

Syrup, 42°, bbls., c.l..100 lbs. 3.42 - —
43°, bbls., c.l. 100 lbs. 3.47 - —

Corrosive sublimate, cryst., dms., 50 lbs. or more..lb. 2.19 - —
gran., powd., dms., 50 lbs. or more..lb. 2.04 - —

Cottonroot bark, bls. lb. .10 - .11
Cornsilk, bls. lb. .15 - .19

Cottonseed, hull ash, 32-36% pot-ash, bgs., dlvd..unit-ton. 1.00 - —
meal, 8%, Southeast, mills.ton.28.00 -28.50

Coumarin, 5 lbs., or more, 25-lb. cns..lb. 2.75 - 3.00
5-lb. cns. lb. 2.85 - 3.10
1-lb. cns. lb. 3.00 - 3.25
1-oz cns. lb. 3.35 - 3.60
less than 5 dms., cns. lb. 4.15 - 4.65

Cramp, bark, genuine, bls. lb. .23 - .54
so-called, bls. lb. .06 - .07

Cranesbill root, bls. lb. .10 - .18

Cream tartar, gran. or powd., bbls., 5,000 lbs., one shipm't. lb. .42½- —
smaller lots, bbls. lb. .43 - —
kgs. lb. .43½- —

Creosote, beechwood, bots. lb. No prices
hardwood, USP, bots. lb. .45 - .47
Pine, dms. gal. .28 - —
Carbonate, bots., cbys. lb. 1.90 - 2.20
Oil, crude, tanks, works. gal. .13½- .14½
Coaltar, solution, tanks, works, gal. .122 - .132
refd., bbls., l.c.l., works, gal. .25 - —
tanks, works. gal. .18 - .18½

China Clay—Cyclohexanone

Cresol, USP, dms., c.l., works. lb. .09¾- —
l.c.l., same basis. lb. .10¼- —
special resin grade, dms., c.l., works..lb. .08¾- —
l.c.l., same basis. lb. .09¼- —

Crotonaldehyde, 97%, 55 and 110 gal., c.l., works. lb. .11 - —
l.c.l., works. lb. .12 - —
5 and 10 gal. dms., works..lb. .15 - —

Cube root, powd., 5% rotenone, bbls., f.o.b. N. Y. C. lb. .19 - .21
4% rotenone prices are 3c. per lb less.

Cubeb berries, XX, bgs. lb. .39 - .41
powd., cs. lb. .45 - .47

Culver's root, bls. lb. .16 - .17

Cumin seed, Morocco, bgs. lb. .19 - .19½
Cyprus, bgs. lb. .19 - .19½
Persian, bgs. lb. .16½- .17

Cutch, Borneo, extract, solid, contract, f.o.b. N. Y., duty paid..lb. .04½- —

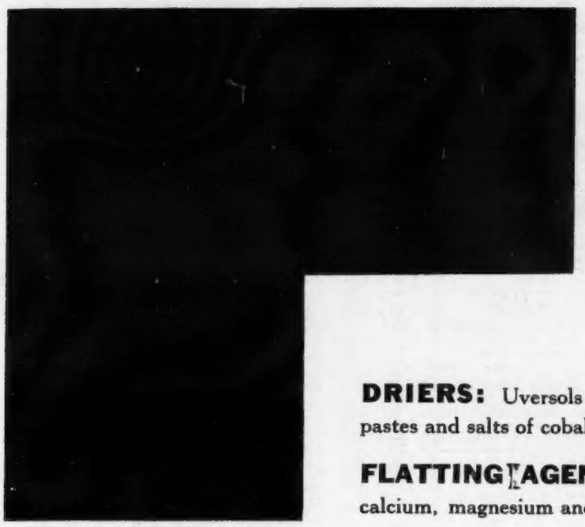
Cyanamide, 22% N, pulv., bgs., dlvd., contracts, N..unit-ton. 1.60 - —

Cyanide-chloride, mixture, 40% gran., dms., lb. .10¾- —
lump, dms. lb. .09¾- —
75%, gran., dms. lb. .15 - —

Cychlohexane, 98-100%, dms., works..lb. .16 - —

Cyclohexanol, 98-100%, dms., works..lb. .28 - —

Cyclohexanone, 98-100%, dms., works..lb. .32 - —



HARSHAW METALLIC SOAPS

FOR THE PAINT, VARNISH, LACQUER, AND ALLIED INDUSTRIES

DRIERS: Uversols (naphthenates), linoleates, oleates, resinates, pastes and salts of cobalt, lead, manganese and zinc.

FLATTING AGENTS: Stearates and laurates of aluminum, calcium, magnesium and zinc, Eg-Glo.

SUSPENSION AGENTS: Stearates, laurates and calcium linoleate pulp.

WETTING AGENTS: Uversol zincs and lead soaps in general.

BODYING AGENTS: Uversol aluminum, various stearates and laurates.

ANTI-FOULING MILDEW PREVENTION: Uversol copper, copper linoleates, copper oleates, copper resinates and Uversol zincs.

WATER REPELLENT INGREDIENTS: Laurates of aluminum and zinc.

ANTI-CHALKING AGENTS: Uversol chromium.

ANTI-WRINKLING AGENTS: Uversol copper liquid 6% and Uversol Zinc liquid 10%.

THE HARSHAW CHEMICAL CO.

Offices and Laboratories: Cleveland, Ohio

QUALITY PRODUCTS SINCE 1892

New York, Philadelphia, Chicago, Detroit, Pittsburgh, Cincinnati, East Liverpool, Los Angeles, San Francisco,

Works at Cleveland and Elyria, Ohio, and Philadelphia, Pa.

Damiana Leaves—Ginger Root

D

Damiana leaves, bls.....lb. .16 - .17
Dandelion root, German, bls...lb. .75 - .80
Decanol, normal, tech., 360 lbs., dms., dlvd..lb. .35 - —
Deertongue leaves, bls.....lb. .12 - .14
Degras, common dom., bbls...lb. .08 - .08½
neutral, dom., bbls.....lb. .13½- .16½
Derris root, powd., 3% rotenone, bbls., f.o.b. N.Y.....lb. .21 - .23
4% rotenone prices are 3c. per lb. less.
Derris, extract, 25% rotenone, bulk, cns..lb. 3.00 - 4.00
Dextrin, British gum, c.l., f.o.b. Chicago..100 lbs. 4.05 - —
l.c.l., f.o.b. Chicago..100 lbs. 4.15 - —
Corn, canary, bgs., c.l., f.o.b. Chicago..100 lbs. 3.80 - —
l.c.l., f.o.b. Chicago..100 lbs. 4.60 - —
white, bgs., c.l., f.o.b. Chicago..100 lbs. 3.75 - —
l.c.l., f.o.b. Chicago..100 lbs. 3.95 - —
Potato, import, bgs.....lb. No stocks
Diacetone (see under Alcohol).
Diacetyl, bots.....lb.10.00 -11.00
Diamyl ether, dms., c.l., works, lb. .085 - —
l.c.l., works.....lb. .092 - —
tanks, works.....lb. .075 - —
Oxalate, dms., l.c.l., works...lb. .30 - —
Phthalate, dms., c.l., dlvd...lb. .21 - —
l.c.l., dlvd.....lb. .21½- —
tanks, dlvd.....lb. .20 - —
Sulphide, dms., l.c.l., works..lb. 1.10 - —
Diamylamine, dms., c.l., works, lb. .47 - —
l.c.l., works.....lb. .48 - .50
tanks, works.....lb. .45 - —
Diamylene, dms., c.l., works...lb. .095 - —
l.c.l., works.....lb. .102 - —
tanks, works.....lb. .085 - —
Diamylnaphthalene, dms., l.c.l., works..lb. .20 - —
Diamylphenol (2, 4), dms., c.l., works..lb. .17 - —
l.c.l. .....lb. .20 - —
Diatomaceous earth, dom., natural, bgs., c.l., f.o.b. Pacific cst..ton.22.00 -25.00
l.c.l., ex whse.....ton.45.00 - —
purified, bgs., c.l., f.o.b. Atlantic seaboard.....ton.35.00 -39.00
l.c.l., ex whse.....ton.85.00 -90.00
chemically pure, bgs., c.l., f.o.b. Atlantic seaboard..lb. .06 - —
l.c.l., ex whse.....lb. .10 - .16
import, bgs., c.l., c.i.f...ton. No prices
Dibutylamine, dms., c.l., works, lb. .50 - —
l.c.l. .....lb. .51 - .53
tanks, works.....lb. .48 - —
Dibutyl ether (see Ether, butyl).
Phthalate, dms., c.l., dlvd...lb. .19 - —
l.c.l., dlvd.....lb. .19½- —
tanks, dlvd.....lb. .18 - —
cns., works.....lb. .23½- .25½
Sebacate, dms., works.....lb. .45 - .47
Tartrate, dom., dms.....lb. .50 - —
Dicalcium phosphate (see Calcium phosbhate dibasic).
Dichlorethyl ether, dms., c.l., works..lb. .15 - —
l.c.l., works.....lb. .16 - —
tanks, works.....lb. .14 - —
Dichloropentane, dms., c.l., works, lb. .0221- —
l.c.l. .....lb. .04 - —
tanks .....lb. .025 - —
Diethanolamine, dms., c.l., works, lb. .23½- —
l.c.l., works.....lb. .24½- —
tanks, works.....lb. .22½- —
Diethylamine, dms., l.c.l., works, lb. .70 - —
Diethylaniliin, dms.....lb. .40 - —
Diethylcarbonate, com'l, dms..lb. .25 - —
ref'd., 99%, dms.....lb. .35 - —
Carbinol (see Carbinol).
Oxalate, dms., l.c.l., dlvd....lb. .27 - —
Phthalate, dms., c.l., frt. alld, lb. .19 - —
l.c.l. .....lb. .19½- —
tanks .....lb. .18 - —
Sulphate, dms., c.l., works...lb. .13 - —
l.c.l., works.....lb. .14 - —
tanks .....lb. .12 - —
Diethyleneglycol, dms., c.l., works, lb. .14 - —
l.c.l., works.....lb. .15½- —
Monobutylether, dms., c.l., works..lb. .22½- .24½
Monoethylether, dms., c.l., works..lb. .14½- —
l.c.l., works.....lb. .15½- —
tanks, works.....lb. .13½- —
Digitalis leaves, dms.....lb. .35 - .40
Diglycol, laurate, c.l.....lb. .16 - —
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .22 - —
Di-isobutyl ketone, dms., works.lb. .19 - —
Dillseed, recleaned, bgs.....lb. .07¾- .08¼
Dimethyl phthalate, dms., c.l., dlvd..lb. .18½- —
l.c.l., dlvd.....lb. .19 - —
tanks, dlvd.....lb. .17½- —
Dimethylaniliin, dms., c.l.....lb. .23 - —
l.c.l., dms.....lb. .24 - —
Dimethylamine, dms., c.l., dlvd.lb. 1.00 - —
l.c.l., dlvd.....lb. 1.05 - —
Dimethylethyl carbinol (see Carbinol).
Dinitrobenzene, bbls., 80° min.lb. .18 - —
Dinitrochlorobenzene, dms.....lb. .14 - —
Dinitronaphthalene, kgs.....lb. .35 - .38
Dinitrophenol, bbls.....lb. .22 - —
Dinitrotoluene, dms.....lb. .15½- —
oily, dms.....lb. .09 - —
Diorthotoluolguanidin, dms., 2,000 lbs. or over, dlvd..lb. .44 - —
600-1,950 lbs., dlvd.....lb. .46 - —
150-450 lbs., dlvd.....lb. .47 - —
Dioxan, dms., c.l., frt. alld....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, dms.....gal. .47 - .50
tanks .....gal. .41 - —
dest., dist., dms.....gal. .45 - .48
tanks .....gal. .38 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works.....lb. .16 - .20
Oxide, perfume grade, cns...lb. .50 - .55
Diphenylamine, bbls.....lb. .23 - —
Diphenylguanidin, dms., 2,000 lbs., or over, dlvd..lb. .35 - —
600-1,950 lbs., dlvd.....lb. .36 - —
150-450 lbs., dlvd.....lb. .37 - —
Diphenylmethane, bots.....lb. 1.40 - 3.00
Dimethylethyl carbinol (see Carbinol).
Divi-divi, Columbian.....ton.32.00 - —
Venezuelan .....ton.35.00 - —
Doggrass root, cut, N.F., bls...lb. .60 - .65
Dogwood bark, Jamaica, bls...lb. .08 - .10
Dovers powder, USP, cns.....lb. 2.75 - 2.80
Dragon's blood, mass, cs.....lb. .65 - .85
reeds, cs.....lb. 1.00 - 1.05

Dyes, coaltar (certified colors) for foods, drugs and cosmetics:—
Blue, FD&C blue, No. 1, cns.lb.13.50 - —
FD&C blue, No. 2, cns....lb.13.50 - —
FD&C green, No. 2, cns....lb.17.50 - —
FD&C green, No. 3, cns....lb.27.50 - —
Green, FD&C green, No. 1, cns. lb.13.50 - —
Orange, FD&C orange, No. 1, cns..lb. 2.90 - —
FD&C orange, No. 2, cns..lb. 3.65 - —
Red, FD&C red, No. 1, cns...lb. 6.00 - —
FD&C red, No. 2, cns.....lb. 3.15 - —
FD&C red, No. 3, cns.....lb.17.50 - —
FD&C red, No. 4, cns.....lb. 5.75 - —
FD&C red, No. 32, cns.....lb. 4.15 - —
Yellow, FD&C yellow, No. 1, cns..lb. 8.50 - —
FD&C yellow, No. 3, cns..lb. 2.65 - —
FD&C yellow, No. 4, cns..lb. 2.65 - —
FD&C yellow, No. 5, cns..lb. 3.15 - —
FD&C yellow, No. 6, cns..lb. 3.15 - —
Dyes, coaltar (certified colors), for drugs and cosmetics):—
Black, D&C black, No. 1....lb. 8.35 - —
Blue, D&C blue, No. 6.....lb.13.50 - —
Brown, D&C brown, No. 1, cns. lb.12.35 - —
Green, D&C green, No. 5, cns., lb.12.35 - —
D&C green, No. 6, cns.....lb.12.35 - —
Orange, D&C orange, No. 3, cns..lb. 8.35 - —
D&C orange, No. 4, cns....lb.13.35 - —
D&C orange, No. 10, cns...lb.15.85 - —
D&C orange, No. 11, cns...lb.17.35 - —
Red, D&C red, No. 8.....lb. 6.00 - —
D&C red, No. 17.....lb. 8.35 - —
D&C red, No. 18.....lb.18.35 - —
D&C red, No. 19, cns.....lb.15.35 - —
D&C red, No. 22, cns.....lb. 8.35 - —
D&C red, No. 33.....lb.13.35 - —
D&C red, No. 37, cns.....lb.12.35 - —
Yellow, D&C yellow, No. 7, cns..lb. 8.35 - —
D&C yellow, No. 3, cns...lb. 8.35 - —
D&C yellow, No. 11.....lb.10.35 - —
Dyes, coaltar (certified colors), for external use druga and cosmetics:—
Blue, Ext. D&C blue, No. 1, cns..lb.12.85 - —
Green, Ext. D&C green, No. 1, cns..lb.12.35 - —
Red, Ext. D&C red, No. 1, cns..lb.10.35 - —
Ext. D&C red, No. 3.....lb.21.85 - —
Ext. D&C red, No. 8.....lb. 7.85 - —
Ext. D&C red, No. 10, cns...lb.12.85 - —
Ext. D&C red, No. 13, cns...lb.12.35 - —
Yellow, Ext. D&C yellow, No. 1, cns..lb. 8.35 - —
Dyes, coaltar, for general uses (numbers are those of Colour index scale):—
36 Chrome yellow 2G....lb. .65 - .70
40 Chrome yellow R.....lb. .95 - 1.00
53 Victoria violet.....lb. .80 - 1.00
165 Lake red C.....lb. .70 - .80
170 Fast red A.....lb. .55 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste....lb. .85 - .90
189 Lake red R, powd....lb. 3.00 - 3.10
Sulphur tan.....lb. .30 - .50
202 Chrome blue black U.lb. .32 - .40
204 Chrome black A.....lb. 1.75 - 2.00
208 Fast red blue B.....lb. .75 - 2.00
216 Chrome red B.....lb. 1.75 - 2.00
262 Cloth red 2B.....lb. .60 - .80
289 Fast cyanin 5R.....lb. .90 - 1.00
299 Chrome black F.....lb. .60 - .65
307 Fast cyanin black B.lb. .80 - .85
326 Direct cast scarlet....lb. 2.00 - 2.25
304 Paper yellow.....lb. .85 - .90
365 Chrysophenin G.....lb. .58 - .70
394 Direct violet N.....lb. 1.25 - 1.35
382 Direct scarlet B.....lb. 1.50 - 1.75
387 Direct violet B.....lb. 1.00 - 1.30
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .25 - .30
415 Direct orange R.....lb. .60 - .70
419 Direct red F.....lb. .75 - .85
420 Direct brown M.....lb. 1.00 - 1.10
448 Benzo purpurin 4B...lb. .40 - .42
495 Benzo purpurin 10B..lb. .40 - .50
502 Direct azurin G.....lb. .75 - .80
512 Direct blue RD.....lb. .80 - 1.00
518 Direct pure blue 6B..lb. 1.10 - 1.25
520 Direct pure blue 3B..lb. .50 - 1.00
529 Direct fast black, FF.lb. .55 - 1.00
581 Direct black EW.....lb. .25 - .50
582 Direct black RX.....lb. .35 - .45
592 Direct green B.....lb. .75 - .80
594 Direct green G.....lb. 1.00 - 1.05
596 Direct brown 3GO....lb. .85 - 1.00
620 Direct yow R.....lb. 1.25 - 1.50
698 Acid violet.....lb. 1.00 - 3.00
812 Primulin .....lb. .50 - .52
814 Direct fast yellow....lb. 2.00 - 2.25
845 Nigrosin (water soluble), lb. .35 - .50
1177 Indigo, 20 p.c. paste..lb. .15 - .18
Benzo fast black L...lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .40 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon.....lb. .40 - —
Sulphur olive.....lb. .25 - .54
Sulphur yellow.....lb. .30 - .50
Zambesi black.....lb. .75 - .80
Dyes, coaltar, for stains, oil-soluble (prices in barrels of 100 lbs.; lots of 25 pounds to a barrel are 3c. per lb. higher; f.o.b. sellers' works or warehouse):—
Black:—
865 Nigrosin derivatives..lb. .38 - .62
Blue:—
1075 Alizarin astrol base...lb.15.00 - —
1078 Alizarin cyanin green base..lb. 6.00 - —
Brown:—
Brown .....lb. 1.15 - —
Green:—
1078 Alizarin cyanin green.lb. 5.00 - —
Green .....lb. .75 - —
Orange:—
24 Sudan I.....lb. .75 - —
Orange, red shade....lb. .75 - —
Red:—
75 Sudan II.....lb. 1.05 - —
258 Sudan IV.....lb. .95 - —
749 Rhodamine B (oil pink), lb. 2.50 - —
1080 Anthraquinone violet base..lb. 6.00 - —
680 Oil violet.....lb. .50 - —
Yellow:—
15 Amidoazobenzene yellow..lb. .90 - —
17 Amidoazotoluene yellow, lb. .75 - —
61 Yellow OB.....lb. 1.40 - —
Spirit-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher; f.o.b. sellers' works or warehouse):—
Black:—
864 Nigrosin .....lb. .38 - .44
Blue:—
860 Indulin .....lb. .60 - .70
Brown:—
331 Bismarck brown.....lb. 1.50 - —
Green:—
657 Malachite green base..lb. 2.00 - —

Dyes, coaltar, spirit-soluble:—
Orange:—
20 Chrysoidin G.....lb. .95 - —
21 Chrysoidin R.....lb. .95 - —
Red:—
677 Fuchsin, magenta base, lb. 7.25 - —
749 Rhodamine B.....lb. 4.75 - —
Yellow:—
67 Amidoazotoluene yellow, lb. .75 - —
655 Auramine .....lb. 2.90 - —
800 Chinolin yellow SS....lb. 2.00 - —
Violet:—
680 Methyl violet base....lb. .85 - —
Dyes, coaltar, water-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher; f.o.b. sellers' works or warehouse).
Black:—
246 Naphthol blue black S.lb. .50 - —
873 Methylene gray.....lb. 1.50 - —
Blue:—
714 Patent blue A.....lb. 1.45 - —
729 Victoria blue B.....lb. 2.00 - —
861 Indulin .....lb. .87 - —
909 New blue R.....lb. 1.30 - —
922 Methylene blue.....lb. 1.00 - —
1054 Alizarin saphirol B....lb. 1.90 - —
1180 Indigotin IA.....lb. .85 - —
Brown:—
234 Resorcin brown Y.....lb. .63 - —
235 Resorcin dark brown R, lb. .66 - —
231 Bismarck brown G....lb. .40 - .52
332 Bismarck brown R....lb. .50 - .52
703 Phosphin .....lb. 4.65 - —
Green:—
5 Naphthol green B.....lb. 1.00 - —
657 Malachite green.....lb. 1.35 - —
662 Brilliant green.....lb. 2.00 - —
666 Guinea green B.....lb. 1.15 - —
737 Wool green S.....lb. .58 - —
924 Methylene green B....lb. 1.55 - —
1078 Alizarin cyanin green, lb. 2.35 - —
Orange:—
10 Chrysoidin G.....lb. .40 - —
21 Chrysoidin R.....lb. .37 - —
27 Orange G.....lb. .50 - —
151 Orange Y.....lb. .30 - —
161 Orange R.....lb. .34 - —
31 Amidonaphthol red G..lb. .42 - —
37 Amidonaphthol red 6B, lb. .68 - —
79 Popceau R.....lb. .48 - —
88 Fast red B.....lb. 1.05 - —
176 Fast red A.....lb. .54 - —
179 Azorubin .....lb. .60 - .62
183 Crocein scarlet 3BX...lb. .72 - .75
185 Cochineal red A.....lb. .60 - —
252 Brilliant crosein M....lb. .68 - —
677 Fuchsin .....lb. 2.10 - —
749 Rhodamine B.....lb. 3.50 - —
752 Rhodamine 6G.....lb. 4.50 - —
768 Eosin G.....lb. 1.50 - —
941 Safranin .....lb. 1.45 - —
Violet:—
680 Methyl violet B.....lb. .75 - —
681 Crystal violet C....lb. 1.75 - —
695 Acid violet 4BN.....lb. .88 - —
Yellow:—
10 Naphthol yellow S....lb. .88 - —
138 Metanil yellow.....lb. .53 - —
636 Fast light yellow....lb. 1.25 - —
639 Xylene light yellow...lb. 1.15 - —
640 Tartrazin .....lb. .80 - —
655 Auramine .....lb. 1.27 - —
Dyes, natural (see name of article).

E

Echniacea root, bls.....lb. .18 - .19
Egg albumen (see Albumen).
yolk, dom., bbls.....lb. .59 - .60
imported .....lb. .56 - .59
Elder flowers, bright, bls.....lb. .72 - .75
Elecampane root, bls.....lb. .10 - .11
Elm bark, grinding, bls.....lb. .11 - .12
powd., bbls., bxs.....lb. .19 - .20
select, bndls.....lb. .19 - .21
Emetine hydrochloride, bots...oz.22.00 -23.00
Ephedra, bls.....lb. .12 - .13
Ephedrine, U.S.P. hemihydrate, tins, 1,000 oz...oz. .70 - —
100 ozs.....oz. .80 - —
anhyd., dms., 1,000-oz. lots.oz. .75 - —
100-oz. lots.....oz. .85 - —
Hydrochloride, tins, 1,000-oz. lots..oz. .55 - —
tins 100-oz. lots.....oz. .65 - —
Sulphate cryst., tins, 1,000-oz. lots..oz. .53 - —
tins, 100-oz. lots.....oz. .63 - —
Epsom salt, tech., bgs.....100 lbs. 1.80 - —
bbls. .....100 lbs. 1.90 - —
USP, cryst., dom., bgs., c.l., 100 lbs. 2.00 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.25 - —
smaller lots.....100 lbs. 2.50 - —
bbls., c.l.....100 lbs. 2.10 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.35 - —
smaller lots.....100 lbs. 2.60 - —
kgs., c.l.....100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal..100 lbs. 2.60 - —
smaller lots.....100 lbs. 2.85 - —
dried, bgs., l.c.l.....lb. .08 - .09
Ergot, USP, cns., dms.....lb. 1.55 - 1.60
Eserine, bots.....oz.50.00 -60.00
Salicylate, bots.....oz.42.00 -54.00
Sulphate, bots.....oz.42.00 -54.00
Ether, acetic (see Ethyl acetate).
Butyl, l.c.l., dlvd.....lb. .25 - —
Ethyl (see Ether, sulphuric).
Nitrous, conc., bots., 100 lbs., lb. .68 - —
Sulphuric, conc., 310-lb. dms., lb. .11 - —
cns., 27 lbs.....lb. .14 - —
Synth., dms., c.l., works....lb. .10 - —
l.c.l., works.....lb. .11 - —
tanks .....lb. .08 - —
USP, anesthesia, dms., 27 lbs., lb. .26 - —
washed, dms.....lb. .37 - .38
Ethyl acetate, 85-90%, dms., c.l., frt. alld..lb. .07½- —
l.c.l., frt. alld.....lb. .08 - —
tanks, frt. alld.....lb. .06½- —
95-98%, dms., c.l., frt. alld..lb. .07¾- —
l.c.l., frt. alld.....lb. .08¼- —
tanks, frt. alld.....lb. .06¾- —
N.F., 490-lb. dms.....lb. .10 - —
cns., 35 lbs.....lb. .14½- —
Acetoacetate, dms., c.l., wks.lb. .27½- —
l.c.l., dms., works.....lb. .28 - —
Bromide, tech., dms.....lb. .50 - .55
Caproate, cns.....lb. 1.00 - —
Chloride, dms.....lb. .18 - .20
Cinnamate, cns.....lb. 3.20 - 4.00
Crotonate, 55-gal. dms., dlvd., lb. .35 - —
1-gal. cns.....lb. 1.00 - —
5 and 10-gal. dms., dlvd...lb. .75 - —
Formate, cns., dms.....lb. .25 - .26
Iodide, bots.....lb. 3.50 - 3.60
Lactate, 55-gal. dms., works..lb. .33½- —
5-gal. dms., works.....lb. .37½- .39½
Oxalate, dms., frt. alld.....lb. .25 - —
Silicate, l.c.l., dms., works..lb. .77 - —
Vanillin, 25-lb. lots, cns.....lb. 6.00 - —
5-lb. lots, cns.....lb. 6.05 - —
1-lb. lots, cns.....lb. 6.15 - —

Ethylcellulose, contracts, bgs., c.l., frt. alld..lb. .45 - —
5,000 lbs. or more, frt. alld., lb. .47 - —
500 lbs. or more, frt. alld., lb. .48 - —
100 to 499 lbs., frt. alld...lb. .50 - —
smaller lots, works.....lb. .55 - —
Ethylene, dichloride, dms., c.l., works, E. of Rockies, frt. alld..lb. .0693- —
West of Rockies, same basis..lb. .0743- —
l.c.l., works, E. of Rockies, frt. alld..lb. .0746- —
West of Rockies, same basis..lb. .0792- —
Ethyleneglycol, dms., c.l.....lb. .14½- —
l.c.l. .....lb. .15½- .18½
tanks .....lb. .13½- —
Monobutylether, dms., c.l., works..lb. .16½- —
l.c.l., works.....lb. .17½- .20½
tanks, works.....lb. .15½- —
Monoethylether, dms., c.l., works, lb. .14½- —
l.c.l., works.....lb. .15½- .18½
tanks, works.....lb. .13½- —
Monoethylether, acetate, dms., c.l., works..lb. .11½- —
l.c.l., dms.....lb. .12½- .15½
tanks, works.....lb. .10½- —
Monomethylether, dms., c.l., works..lb. .15½- —
l.c.l., works.....lb. .16½- —
tanks, works.....lb. .14½- —
Ethyldinaniliin, dms.....lb. .45 - .47½
Eucalyptol, cns., dms.....lb. .78 - .80
Eucalyptus leaves, bls.....lb. .11 - .12
Eugenol, cns., dms.....lb. 1.75 - 2.00
Euphorbia, bls.....lb. .09 - .10

F

Feldspar, enamel, 100 mesh, bulk, works..ton.14.00 -17.50
l.c.l., minimum 2 tons..ton.17.00 -20.50
glass, 20 mesh, bulk, works.ton. 9.75 -13.25
l.c.l., minimum 2 tons..ton.12.75 -16.25
pottery, bulk, Me., works...ton.17.00 -19.00
N. C., works.....ton.17.00 -19.00
l.c.l., minimum 2 tons.ton.20.00 -22.00
Fennel seed, Argentine, bgs...lb. .16 - .16½
French, bgs.....lb. .35 Nom.
Indian, bgs.....lb. .11½- .12
German, large, bgs.....lb. .33 Nom.
Roumanian, bgs.....lb. .11½- .12
Fenugreek seed, bgs.....lb. .04½- .05
Ferric, sulphate, anhyd., c.l., works..ton.35.00 - —
l.c.l. .....ton.40.00 - —
Film scrap, colors, dark, cs., 1,000 lbs. or over, works..lb. .12 - —
smaller lots, works....lb. .13 - —
light, cs., 1,000 lbs. or over, works..lb. .13 - —
smaller lots, works....lb. .15 - —
water white, cs., 1,000 lbs. or over, works..lb. .14 - —
smaller lots, works....lb. .15 - —
Fir balsam, Canada, cns.....gal.16.00 -16.50
Oregon, bbls.....gal. 1.10 - 1.15
Fish berries, bgs.....lb. .26 - .27
Fish scrap, menhaden, dried, 11-12% ammon., 15% bone phos., bulk, Chesapeake factories, contracts, futures..unit-ton. No prices
meal, bgs., f.o.b. Balto.....ton.58.00 -59.00
6-7% ammon., 3% phosphor. acid, bulk, So. Atlantic factories, contracts....unit-ton. 2.50 & .50
sardine, meal, Japanese, 11½% ammon., bgs., c.l., ports, Jan. shipt..ton. No prices
spot..ton. No prices
Flake white, dom., bbls.....lb. .09 - —
kegs .....lb. .11 - —
Fleaseed, French, black, bgs...lb. .55 - .60
Indian, blonde, bgs.....lb. .09 - .10
Fluorspar, dom., No. 1 ground, bulk, 98-98%, f.o.b. mines, net ton. 29.00 - —
washed gravel, 85.5 f.o.b. Ky. and Ill.-Ky. mines.net ton.20.00 - —
No. 2, lump, 85.5 f.o.b. Ky. and Ill. mines...net ton.20.00 - —
imported, 85.5, duty paid, short ton. No prices
Formaldehyde, bbls., c.l., works, lb. .0550- —
l.c.l., works.....lb. .06 - —
dms., c.l., works.....lb. .0515- —
l.c.l., works.....lb. .0565- —
tanks, works.....lb. .04 - —
Fringetree bark, bls.....lb. .14 - .15
Fuller's earth, dom., bgs., c.l., f.o.b. Fla., Ga. mines...ton.15.00 - —
import, bgs., c.l., ex dock.ton. No prices
l.c.l., ex whse.....ton. No prices
Furfural, ref., dms., c.l., works, lb. .15 - —
l.c.l., works.....lb. .17½- .25
tech., dms., contracts, 150,000 lbs..lb. .10 - —
c.l., works.....lb. .12½- —
l.c.l., works.....lb. .15 - .20
tanks, works.....lb. .09 - —
Fusel oil, refd., dms., incl., dlvd., lb. .16 - .17½
Fustic extract, cryst., bbls.....lb. .24 - .25
liquid, bbls.....lb. .10½- .14
solid, dms.....lb. .19 - .21

G

G salt, bbls.....lb. .45 - —
Galangal root, bls.....lb. .11 - .12
Gambier, common, cases.....lb. .06½- .07
plantation, cases.....lb. .09½- .11½
Cubes, Singapore, cases...lb. .08½- .09
extract, bbls.....lb. .09½- .12
Gasoline at refinery:—
Bayonne, US motor, tanks, ex tax..gal. .05½- .06½
California (f.o.b. San Francisco), regular, trucks, tax incl.,gal. .13½- —
Gulf Coast, US motor, 70-72 octane, tanks, ex tax..gal. .03½- .03½
Louisiana-Arkansas, US motor, 72-74 octane, tanks, ex tax..gal. .04½- .04⅝
Oklahoma-Texas, US motor, 72-74 octane, tanks, ex tax..gal. .04½- .04⅜
natural, 18-55, tanks....gal. .02⅜- .02⅝
26-70, tanks.....gal. .02 - .02⅜
Gelatine, silver, cs.....lb. .60 - .67
Gelsemium root, bls.....lb. .14 - .15
Gentian root, bls.....lb. .40 - .45
grd., bbls., bxs.....lb. .44 - .49
powd., bbls., bxs.....lb. .45 - .50
Geraniol, cns., dms.....lb. .60 - 3.00
Ginger, African, No. 1, bgs....lb. .07⅜- .07¾
Cochin, lemon, bgs.....lb. No stocks
Jamaica, bold, bgs.....lb. .14 Nom.
medium, bgs.....lb. .13½ Nom.
grindting, bright, bgs.....lb. .13 Nom.
Japanese, bgs.....lb. No stocks

Ginseng root, wild Southern, cs. lb.12.00 -13.00
Glauber's salt, andhyd. (see Soda Sulphate).
cryst., dom., bgs., bbls., c.l., works..100 lbs. .95 - 1.18
5 tons or over, works, 100 lbs. 1.05 - 1.25
less than 5 tons, works, 100 lbs. 1.15 - 1.35
import, bgs.....100 lbs. No prices
Glue, bone, calcimine type, 24 millipoise, 36 jelly-grams, bgs., c.l., dlvd..lb. .14 - —
l.c.l., dlvd.....lb. .14½- —
36/58 bgs., c.l., dlvd.....lb. .13½- —
l.c.l., dlvd.....lb. .14 - —
58/82 bgs., c.l., dlvd.....lb. .15 - —
l.c.l., dlvd.....lb. .15½- —
82/108 millopose, bgs., c.l., dlvd..lb. .15½- —
l.c.l., dlvd.....lb. .16 - —
Hide, calcimine type, 58 millipoise, 135 jellygrams, bgs., c.l., dlvd. East Middlewest. lb. .17 - —
l.c.l., same basis.....lb. .17½- —
60/164, bgs., c.l., same basis, lb. .18½- —
l.c.l., same basis.....lb. .19 - —
67/122, bgs., c.l., same basis, lb. .19½- —
l.c.l., same basis.....lb. .20 - —
75/222, bgs., c.l., same basis, lb. .22½- —
l.c.l., same basis.....lb. .23½- —
88/251, bgs., c.l., same basis, lb. .23½- —
l.c.l., same basis.....lb. .24½- —
92/283, bgs., c.l., same basis, lb. .24½- —
l.c.l., same basis.....lb. .25½- —
102/315, bgs., c.l., same basis..lb. .25½- —
l.c.l., same basis.....lb. .26 - —
113/347, bgs., c.l., same basis..lb. .26 - —
125/379, bgs., c.l., same basis..lb. .27 - —
l.c.l., same basis.....lb. .28 - —
Glue prices for barrel packing, ½c. per lb. higher; grinding charge, 20-40 mesh, ½c. per lb.; 60 mesh, 1c. per llb.

Glycerin, CP, cns., l.c.l.....lb. .14½- .15
dms., c.l., dlvd.....lb. .12½- —
l.c.l., dlvd.....lb. .13 - —
tanks, dlvd.....lb. .12¼- —
dynamite, dms.....Nominal
high gravity, dms., c.l., dlvd.lb. .12 - —
l.c.l., dlvd.....lb. .12½- —
tanks, dlvd.....lb. .11¾- —
saponification, basis 88%, for industrial users, special colors, dms. returnable, c.l., dlvd..lb. .09½- —
l.c.l., same basis....lb. .10½- —
tanks .....lb. .08½- —
for refiners, dms. returnable, tanks, dlvd..lb. .08½- .08¾
soapIye, basis 80%, dms., tanks, returnable, dlvd..lb. .07½- .07¾
Glycine, medicinal, bbls., tins..lb. 1.70 - 2.00
Glycol boriborate, dms.....lb. .22 - —
Phthalate, dms.....lb. .38 - —
Stearate, dms.....lb. .26 - —
Gold, U.S. purchase price.....oz.35.00 - —
Chloride, acid brown, both...oz.20.75 -21.00
yellow, bots.....oz.18.75 -19.00
Gold-soda chloride, photo., botz., oz.13.00 - —
USP IX, bots.....oz.14.50 -14.75
Gold of pleasure, seed, bgs....lb. .16 - .16½
Goldenseal, root, bls.....lb. 2.50 - 2.55
powd., bxs.....lb. 2.75 - 2.80
Grains of paradise, bgs.....lb. .40 - .41
Graphite, flake (cryst.), 90%, 325 mesh, 50% graphitic carbon, bgs., c.l., works..lb. .06 - —
bbls., c.l., works.....lb. .06¼- —
l.c.l., works.....lb. .06½- —
amorph., powd., 90%, 325 mesh, 65% graphite carbon, bgs., c.l., works..lb. .02½- —
bbls., c.l., works....lb. .02¾- —
l.c.l., works.....lb. .03¼- —
80% graphitic, carbon, bgs., c.l., works..lb. .03½- —
bbls., c.l., works.....lb. .03¾- —
l.c.l., works.....lb. .04½- —
Grease, house.....lb. .04¾ Nom.
white .....lb. .05 Nom.
yellow .....lb. .04¾ Nom.
Wool (see Adeps lanae and Degras).
Green, chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. river, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .21 - —
6-10%, bbls., same basis.lb. .22 - —
11-15%, bbls., same basis..lb. .23 - —
16-20%, bbls., same basis.lb. .23½- —
21-25%, bbls., same basis.lb. .24 - —
26-30%, bbls., same basis.lb. .24½- —
31-35%, bbls., same basis.lb. .25½- —
36-40%, bbls., same basis.lb. .27 - —
41-45%, bbls., same basis.lb. .28½- —
46-50%, bbls., same basis.lb. .30 - —
Green, chrome, prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, ½c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
reduced, CP, color content up to 5%, same basis..lb. .06 - —
9-10%, bbls., same basis, lb. .06¾- —
11-13%, bbls., same basis, lb. .07¼- —
14-16%, bbls., same basis, lb. .07½- —
17-19%, bbls., same basis, lb. .07¾- —
20-21%, bbls., same basis, lb. .08 - —
22-23%, bbls., same basis, lb. .08¼- —
24-25%, bbls., same basis, lb. .08½- —
26-27%, bbls., same basis, lb. .08¾- —
28-29%, bbls., same basis, lb. .09¼- —
30-31%, bbls., same basis, lb. .10 - —
32-33%, bbls., same basis, lb. .11¼- —
34-35%, bbls., same basis, lb. .12¼- —
36-40%, bbls., same basis, lb. .14¼- —
41-45%, bbls., same basis, lb. .16¼- —
46-50%, bbls., same basis, lb. .16¾- —
51-55%, bbls., same basis, lb. .17¼- —
56-60%, bbls., same basis, lb. .17¾- —
61-65%, bbls., same basis, lb. .18¼- —

Green, chrome, reduced, C.P., color content 66-70%, bbls., same basis..lb. .19¼- —
71-75%, bbls., same basis, lb. .20¼- —
Oxide, dom., pure, bbls.....lb. .25 - —
ceramic, light shades, bbls., c.l., works..lb. .25 - —
l.c.l., works.....lb. .30 - —
standard grade, bbls., works..lb. .21 - .22
Tetrahydroxide, bbls.....lb. .88 - —
Paris (see P).
Tungstated, brilliant, kgs....lb. 3.50 - —
emerald, kgs.....lb. 2.35 - —
Verdigris (see V).
Green dyes are listed under Dyes.
Grindelia robusta, bls.....lb. .09 - .10
Guaiac resin, cs.....lb. .30 - .35
strained, cs.....lb. .80 - .85
Wood, bls.....lb. .04 - .05
Guaiacol, liq., dms.....lb. 1.65 - 1.67
Carbonate, fib. dms., 25 lbs..lb. 2.40 - 2.74
Gum, guarana, powd., cs.....lb. 1.20 - 1.25
Aloe (see A).
Ammoniac, tears, cs.....lb. .85 - .90
Arabic, amber, sorts, cleaned, bgs..lb. .14 - .15
white, sorts, 1, bgs.....lb. .35 - .36
powd., bbls.....lb. .18 - .20
Asafetida (see A).
Asphaltum (see A).
Benzoin, Siam, cs.....lb. 1.65 - 1.75
Sumatra, cs.....lb. .19 - .20
Camphor (see C).

Gum, chicle, prime, 33% moisture, bgs., ton lots..lb. No prices
Copal, Congo, 1 ,water white, transparent, bgs., c.l., ex dock or ex whse., N. Y. or San Fran..lb. .49½- —
Gum, copal, dammar, elemi, kauri, mastic, sandarac, and yacca gums prices on 30,000 lbs. min. apply to asorted lots of gums as well as one grading; l.c.l. prices are ¼c. higher for 10 bgs. or over; ½c. higher for 1-9 bags.
2, water white, bgs., c.l., same basis..lb. .29½- —
3, selected pale straw bold, bgs., c.l., same basis.lb. .24½- —
4, pale bold straw, bgs., c.l., same basis..lb. .24 - —
5, pale straw bold, bgs., c.l., same basis..lb. .22¾- —
6, pale amber bold, bgs., c.l., same basis..lb. .21½- —
7, pale straw bold, bgs., c.l., same basis..lb. .17 - —
8, light amber bold, bgs., c.l., same basis..lb. .17 - —
9, medium light amber bold, bgs., c.l., same basis..lb. .13¾- —
10, rescraped hard amber, bold, bgs., c.l., same basis..lb. .13¾- —
11, hard dark amber bold, bgs., c.l., same basis.lb. .12¾- —

Ginseng Root—Gum, Copal

Gum, copal, Congo, 12, selected bold sorts, bgs., c.l., same basis..lb. .11¾- —
13, dark sorts bold, bgs., c.l., same basis..lb. .09¼- —
14, selected, fully scraped, ivory, bgs., c.l., same basis..lb. .23¾- —
15, ordinary ivory sorts, bgs., c.l., same basis..lb. .10¾- —
16, inferior ivory sorts, bgs., c.l., same basis..lb. .09¼- —
17, pale, fingers, bgs., c.l., same basis..lb. .18¾- —
18, pale straw nubs, bgs., c.l., same basis..lb. .19¼- —
19, pale straw nubs, bgs., c.l., same basis..lb. .18¾- —
20, hard dark amber nubs, bgs., c.l., same basis..lb. .13¼- —
21, ordinary selected nubs, c.l., same basis..lb. .12¾- —
22, small mixed nubs, bgs., same basis..lb. .10¾- —
23, dark mixed nubs, bgs., c.l., same basis..lb. .11¾- —
24, No. 1, ivory nubs, bgs., c.l., same basis..lb. .17¾- —
25, No. 2, natural ivory nubs, bgs., c.l., same basis..lb. .09½- —
26, pale small nubs, c.l., same basis..lb. .10¾- —
27, pale small nubs., bgs., c.l., same basis..lb. .10¼- —

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It's a Dow Pharmaceutical

Dow is recognized today by the Pharmaceutical trade as one of the foremost producers of—

Aspirin (ACETYL SALICYLIC ACID, U.S.P.)

Pharmaceutical manufacturers rely on Dow Acetyl Salicylic Acid because of its uniformly high quality, and a large portion of the Acetyl Salicylic Acid used by manufacturers of aspirin tablets and other similar preparations is now being supplied by Dow.

Dow also pioneered the production of dry granulations of Acetyl Salicylic Acid with starch, and is now supplying a complete line of the standard grades of this material for direct feeding to tablet machines without further preparation.

Dow Acetyl Salicylic Acid, U.S.P. is supplied in kegs containing 100 pounds net, and barrels containing 200 pounds net.

DOW PHARMACEUTICAL PRODUCTS INCLUDE:

Acetanilid, U.S.P.
Acetphenetidin, U.S.P.
Acetyl Salicylic Acid, U.S.P.
Acetyl Salicylic Acid, Granulation with Starch
Ammonium Bromide, U.S.P.
Ammonium Salicylate, U.S.P.
Antipyrene, U.S.P.
Benzoic Acid, U.S.P.
Bromoform, U.S.P., IX
Calcium Bromide, U.S.P.
Camphor, Monobromated, N.F.
Carbon Tetrachloride, C.P.
Chloroform, U.S.P.
Epsom Salt, U.S.P., Recrystallized
Ethyl Chloride, U.S.P.
Ferric Chloride, Crystals, U.S.P., X
Ferric Chloride Solution, U.S.P.
Glycine, Medicinal
Hydrobromic Acid, U.S.P. IX Quality
Iodine
Lithium Bromide, N.F.
Magnesium Salicylate
Magnesium Sulphate, Desiccated
Methyl Salicylate, U.S.P.
Phenol, U.S.P.
Potassium Bromide, U.S.P.
Potassium Iodide, U.S.P.
Salicylic Acid, U.S.P.
Salol, U.S.P.
Sodium Acetate, U.S.P.
Sodium Benzoate, U.S.P.
Sodium Bromide, U.S.P.
Sodium Salicylate, U.S.P.
Strontium Bromide, N.F.
Strontium Salicylate, N.F.
Tetrachlorethylene, Purified
2,4,6-Tribromphenol
Trichloracetic Acid, U.S.P.

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Branch Sales Offices: New York City, St. Louis, Chicago, San Francisco, Los Angeles, Seattle

DOW

Gum, Copal—Lime, Hydrated

Gum, copal, congo, 28, pale dust, bgs., c.l., same basis..lb. .06¾- —
Batu, bold scraped, bgs., c.l., same basis..lb. .06½- —
unscraped, bgs., c.l., same basis..lb. .06 - —
chips, bgs., c.l., same basis, lb. .05¼- —
dust, bgs., c.l., same basis, lb. .05¼- —
nubs and chips, bgs., c.l., same basis..lb. .05¼- —
black, bold, scraped, bgs., c.l., same basis..lb. .08¾- —
unscraped, bgs., c.l., same basis..lb. .05¾- —
nubs and chips, bgs., c.l., same basis..lb. .06½- —
Hiroe Macassar, pale bold, bgs., c.l., same basis..lb. .12¾- —
chips, bgs., c.l., same basis, lb. .06¾- —
dust, bgs., c.l., same basis, lb. .05¼- —
nubs, bgs., c.l., same basis..lb. .10½- —
Singapore, Rasak, bold, bgs., c.l., same basis..lb. .13¾- —
chips, bgs., c.l., same basis, lb. .08½- —
dust, bgs., c.l., same basis, lb. .05¼- —
nubs, bgs., c.l., same basis, lb. .11 - —
Manila, Boeas, amber and dark, bskts., c.l., same basis, lb. .13¾- —
light, bskts., c.l., same basis..lb. .15¾- —
Loba A, bskts., c.l., same basis..lb. .11¾- —
Loba, B, bskts., c.l., same basis..lb. .11¾- —
C, bskts., c.l., same basis, lb. .11¼- —
CNE, bskts., c.l., same basis..lb. .08½- —
D, bskts., c.l., same basis, lb. .12¾- —
DK, bskts., c.l., same basis, lb. .08 - —
dust, bskts., c.l., same basis..lb. .06 - —
Sambas and white split chips, bskts., c.l., same basis..lb. .15¾- —
Singapore, dust, bskts., c.l., same basis..lb. .06 - —
Spirit-soluble, CBB, bskts., basis..lb. .10¾- —
DBB, bskts., c.l., same basis..lb. .10 - —
MA, bskts., c.l., same basis, lb. .07¾- —
MB, bskts., c.l., same basis, lb. .07¼- —
WS, bskts., c.l., same basis, lb. .10 - —
A/D, cs., c.l., same basis, lb. .13¾- —
Philippine, Manila, amber sorts, bskts., c.l., same basis..lb. .08 - —
chips, pale, bskts., c.l., same basis..lb. .11¾- —
pale, small, bskts., c.l., same basis..lb. .09 - —
extra pale sorts, bskts., c.l., same basis..lb. .10½- —
nubs, bskts., c.l., same basis..lb. .13¼- —
scraped, bskts., c.l., same basis..lb. .14¾- —
seeds and dust, bskts., c.l., same basis..lb. .06¾- —
Pontianak, bold, genuine bgs., same basis..lb. .15¾- —
mixed, bgs., c.l., same basis, lb. .14¾- —
split, bgs., c.l., same basis, lb. .13¾- —
chips, bgs., c.l., same basis, lb. .10 - —
nubs, bgs., c.l., same basis, lb. .12¾- —
Dammar, Batavia, A, cs., c.l., same basis as copal..lb. .21¾- —
A/C, cs., c.l., same basis..lb. .15¼- —
A/E, cs., c.l., same basis..lb. .12¾- —
E, cs., c.l., same basis...lb. .20¼- —
C, cs., c.l., same basis...lb. .14¾- —
D, cs., c.l., same basis...lb. .13¼- —
dust, cs., c.l., same basis..lb. .07¾- —
E, cs., c.l., same basis...lb. .10 - —
F, cs., c.l., same basis...lb. .08 - —
Singapore, 1, cs., c.l., same basis..lb. .16¾- —
2, cs., c.l., same basis....lb. .12¼- —
3, cs., c.l., same basis....lb. .07¼- —
chips, cs., c.l., same basis..lb. .11 - —
dust, cs., c.l., same basis..lb. .07¼- —
seeds, cs., c.l., same basis..lb. .09¾- —
Elemi, cns., c.l., same basis as copal..lb. .06¼- —
Ester, dms., dlvd., New England, N. J., eastern N. Y. and Pa., Del. and Md. 75,000 lbs., contrs. or single shipt., 10,000 lbs. ....lb. .06¼- .06¾
less than 10,000 lbs., same basis..lb. .06½- .07
dlvd. Western N. Y. and Pa., Ohio, Mich., Ind., Ill., Wis., Minn., Iowa, Mo., Ky., Va., W. Va. and N. C., 75,000 lbs., contrs. or straight, c.l..lb. .06¾- .07
dlvd. elsewhere, 75,000 lbs., contrs. or straight, c.l..lb. .07 - .07¼
l.c.l. same basis.....lb. .07¼- .07¾
Euphorbium, cs.....lb. .50 - .55
Galbanum, cs.....lb. 1.05 - 1.10
Gamboge, pipe, cs.....lb. .75 - .80
powd., bbls.....lb. .80 - .85
Ghatti, soluble, bgs.....lb. .11 - .15
superior, bgs.....lb. .09 - .11
Guaiac (see Guaiac resin).
Karaya, bbls., bxs., dms.....lb. .14 - .28
Kauri, brown, XXX, cs., c.l..lb. .29 - —
BX, cs., c.l., same basis...lb. .28 - —
B1, cs., c.l., same basis...lb. .28 - —
B2, cs., c.l., same basis...lb. .24 - —
B3, cs., c.l., same basis..lb. .18½- —
80%, chips, cs., c.l., same basis..lb. .12¾- —
pale, XXX, cs., same basis..lb. .61 - —
1, cs., c.l., same basis...lb. .41 - —
2, cs., c.l., same basis...lb. .24 - —
3, cs., c.l., same basis...lb. .17¾- —
Kino, tins.....lb. No prices
Locust bean, powd., bbls.....lb. Nominal
Mastic, cs.....lb. 1.50 - 1.60
Myrrh, USP, cs.....lb. .45 - .50
Olibanum, siftings, cs.....lb. .09 - .10
tears, cs.....lb. .20 - .35
Opium (see O).
Rosin (see R).
Sandarac, cks.....lb. .50 - .55
Scammony, cs.....lb. 1.10 - 1.15
Taiba, bgs.....lb. .14 Nom.
Thus, bbls.....280 lbs. 15.00 -15.26
Tragacanth, Alleppo, 1 cs....lb. 2.80 - 2.10
2 cs.....lb. 2.45 - 2.60
3 cs.....lb. 2.10 - 2.20
Yacca, bgs.....lb. .03½- .04

Gypsum, Keene's cement, paper bgs., c.l., f.o.b. Acme, Tex., frt. equald..ton. 23.45 - —
Medicine Lodge, Kans., frt. equald..ton. 17.00 - —
Harlem River, N. Y., frt. equald..ton. 18.00 - —
New Brighton, N. Y., frt. equald..ton. 27.65 - —
Southard, Oklahoma, frt. equald..ton. 17.00 - —
Sweetwater, Texas, frt. equald..ton. 21.45 - —
Plaster of Paris, paper bgs., f.o.b. Blue Rapids, Kans., frt. equald..ton. 12.50 - —
Acme, Tex., frt. equald. ton. 12.50 - —
Medicine Lodge, Kans., frt. equald..ton. 12.50 - —
New Brighton, N. Y., frt. equald..ton. 18.00 - —
Southard, Oklahoma, frt. equald..ton. 12.50 - —
Sweetwater, Texas, frt. equald..ton. 13.56 - —
Stucco, paper bgs., c.l., f.o.b. Acme, Tex.; Akron, N. Y.; Blue Rapids, Kan.; Clarence Center, N. Y.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, O.; Harlem River, N. Y.; National City, Mich.; New Brighton, N. Y.; Plasterco, Va.; Portsmouth, N. H.; Roton, Tex.; Saltville, Va.; Southerd, Okla.; Sweetwater, Tex.; frt. equald., ton. 8.00 - —
terra alba, dom., paper bgs., c.l., f.o.b. New Brighton, N. Y.; Southard, Okla., frt. equald..ton. 12.00 - —
import, bgs., ex dock.....ton. 28.00 Nom.

H

Hawthorn berries, bgs.....lb. .45 - .46
Heliotropin, cryst., cns.....lb. 3.00 - 3.20
Hellebore root, white, powd., bbls., lb. .18 - .19
Helonias root, bls.....lb. .53 - .55
Hematine crystals, bbls.....lb. .20 - .30
Hemlock bark extract, 25%, tan, c.l., bbls., works..lb. .03¼- —
l.c.l., bbls., works.....lb. .03¾- —
tanks, works.....lb. .02¾- —
Hempseed, Manchur, bgs.....lb. .06¼- .06¾
Henbane leaves, bls.....lb. 1.75 Nom.
Henna leaves, bls.....lb. .30 - .32
powd., bbls., bxs.....lb. .35 - .37
Heptane, mixed, 77-115°C., dms., c.l., Group 3..gal. .11 - —
l.c.l., Group 3.....gal. .16 - —
tanks, Group 3.....gal. .08½- —
normal, 86-100°, dms., c.l., Group 5..gal. .11½- —
l.c.l., Group 3.....gal. .17 - —
tanks, Group 3.....gal. .09 - —
Hexaldehyde, normal, dms., l.c.l., works..lb. 1.10 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., dms., 1,500 lbs. or more, shipments, f.o.b. Perth Amboy or N.Y.C..lb. .32 - —
150 to 1,350 lbs., shipments, same basis..lb. .33 - —
USP, dms., 500 lbs. or more, shipments, same basis..lb. .38 - —
fib. ctns., same basis.....lb. .40 - —
Hexane, normal, tanks, Group 3, gal. .09¾- —
dms., c.l., dlvd., Group 3..gal. .24 - —
l.c.l., 5 or more, dlvd, Group 3..gal. .29 - —
1-5, dlvd., Group 3.....gal. .38 - —
laboratory grade, dms., c.l., Group 3..gal. .14 - —
l.c.l., Group 3.....gal. .25 - —
Hexanol, dms., l.c.l., works..lb. .25 - —
Homatropine hydrobromide, 25 oz. bots..oz. 15.00 -15.25
Hoofmeal, 17-18% ammon., bulk, f.o.b. Chicago..unit. 2.75 - 2.80
Hops, N.F., bls.....lb. .20 - .21
Horehound, bls.....lb. .15 - .16
Hydrangea root, bls.....lb. .08 - .09
Hydrastine, bots., 4 ozs.....oz. 20.00 - —
Hydrochloride, both., 4 os...oz. 20.00 - —
Sulphate, bots., 4 ozs.....oz. 21.75 - —
Hydrastinine, 15 grs., bots...bot. 1.95 - —
Hydrastis (see Golden seal).
Hydrofluramide, dms., 100 lbs. or more, works..lb. .30 - —
fib. ctns., works.....lb. .40 - —
Hydrogen peroxide, USP, bbls.lb. 100 vols., cbys., E. of Miss. River; West Coast via Panama canal..lb. .08¾- .04
.16 - .16¼
Hydroquinone, dealers, bbls., dms. lb. .90 - .94
Hydroxycitronellal, cns.....lb. 2.00 - 2.50
Hyoscine hydrobromide, bots..oz. 65.00 -75.00
Hydrochloride, bots.....oz. 65.00 -75.00
Hyoscyamine, bots.....oz. 21.25 -22.25
Hydrobromide, bots.....oz. 21.25 -22.25
Sulphate, bots.....oz. 21.25 -22.25
Hypernic, ext. liquid, 50°, bbls. lb. .14 - —

I

Iceland moss, bls.....lb. .25 - .27
Ichthyol, bots.....lb. 4.00 - —
Indian red (see Red, Indian).
Indigo, nat., Madras, cs.....lb. 2.14 - 2.20
synth., liq., bbls.....lb. .16¼- .19
powd., bbls.....lb. .74½- .95
Indium metal.....oz. 12.50 - —
Indol, CP, bots.....lb. 32.00 -34.00
Insect flowers (see Pyrethrum).
Iodine, crude, jars, 25 lbs....lb. 1.67 - —
kgs., 150 lbs., less 5%, ex whse, Staten Island..lb. 1.35 - 1.44
resubl., bots., 5 lbs.....lb. 1.85 - —
jars, 50 lbs.....lb. 1.75 - —
tincture, USP, bbls., 47 gals..gal. 2.00 - —
cbys., 5 gals.....gal. 2.05 - 2.10
mild, bbls., 47 gals.....gal. 1.25 - —
cbys., 5 gals.....gal. 1.30 - 1.35
Iodoform, dms., 100 lbs.....lb. 3.95 - 4.10
jars.....lb. 4.20 - —
Ionone, alpha, bots.....lb. 2.75 - 2.80
Alpha, extra, bots.....lb. 3.75 - 3.80
beta, bots.....lb. 3.10 - 3.15
beta, bots.....lb. 3.90 - 3.95
Ipecac root, 90%.....lb. 1.10 - 1.15
powd., bxs.....lb. 1.25 - 1.30
Irish moss, ordinary, bls.....lb. .25 - .28
powd., 80-90 mesh, bbls..lb. .35 - .38
prime bleached, bls.....lb. .32 - .35
Iron acetate, N. F., IV, 100-lb. cbys..lb. .15 - —
djns., 50 lbs.....lb. .16 - —
liquor, bbls., c.l., dlvd....lb. .03 - —
l.c.l., dlvd.....lb. .04 - —
Chloride (ferric), tech., anhydr., 390-lb. dms..100 lbs. 4.65 - 6.25
150-lb. dms.....100 lbs. 5.00 - 6.00
cryst., bbls., works, frt. alld. or equald..lb. .05 - .06
kegs., works, frt. alld. or equald..lb. .07½- .09
Iron, dioxide, liquor, cbys., works, frt. alld. or equald..lb. .05 - .06
USP X, cryst., bbls.....lb. .07½- —
kegs.....lb. .08½- —
solut. cbys., works, frt. alld. or equald..lb. .06½- .07
djns.....lb. .07½- —
Citrate, USP VIII, pearls...lb. .72 - .75
powd., cns.....lb. .84 - .87
scales, cns.....lb. .77 - .80
Glycerophosphate, bbls., kgs., 1,000-lb. lots..lb. 3.15 - —
smaller lots.....lb. 3.25 - —
cns., 25 lbs.....lb. 3.37 - —
Hypophosphite, cns.....lb. 1.55 - 1.60
Iodide, bots.....lb. 3.15 - 3.23
syrup, djns.....lb. .39 - —
bots.....lb. .53 - —
Nitrate, red, tech., dms....lb. .03½- .04
Iron, oxalate, powd., kgs.....lb. .47 - —
cns.....lb. .52 - —
scales, cns.....lb. .33 - .38
Oxide (see Black, Red, etc.).
Phosphate, ferric, pearls, cns., 50 lbs..lb. .54 - —
25 lbs.....lb. .57 - —
scale, cns., 50 lbs.....lb. .59 - —
25 lbs.....lb. .62 - —
ferrous, 200-lb. bbls.....lb. .35 - —
25-lb. bxs.....lb. .40 - —
100-lb. kgs.....lb. .37 - —
Pyrophosphate, pearls, cns...lb. .59 - .62
scales, cns.....lb. .64 - .67
Reduced, 90%, cs.....lb. .65 - .76
Sulphate, tech. (see Copperas and ferric sulphate).
Sulphate, USP, cryst., 275-lb. bbls.....lb. .04½- —
dms., 100 lbs.....lb. .06½- —
Iron-ammonia citrate, brown, gran., cns..lb. .35 - .36
pearls, cns.....lb. .35 - .38
scales, cns.....lb. .47 - .50
green, gran., cns.....lb. .35 - .38
pearls, cns.....lb. .35 - .36
scales, cns.....lb. .47 - .50
Oxalate, bxs.....lb. .30 - —
fib. dms.....lb. .23½- —
kgs.....lb. .25½- —
Iron-potash oxalate, bbls.....lb. .42 - —
kgs.....lb. .44 - —
jars.....lb. .48 - —
Iron-soda oxalate, bxs.....lb. .30 - —
fib. dms.....lb. .23½- —
kgs.....lb. .25½- —
Isobutylacetate, 85 - gal. dms., works..lb. .0790- —
tanks, works.....lb. .0690- —
Propionate, dms., works.....lb. .09¼- —
Isopentane, 90-gal. dms., single, works..gal. .45 - —
10-gal. dms., single, works..gal. .55 - —
Isophorone, dms., works.....lb. .25 - —
Isopropylamine, dms, works...lb. .35 - —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., 5 gals., E. of Rockies, frt. allid..lb. .11 - —
55 gals., c.l., E. of Rockies, frt. allid..lb. .07½- —
55 gals., l.c.l., E. of Rockies, frt. allid..lb. .08 - —
tanks, E. of Rockies, frt. allid..lb. .06½- —
Alcohol (see Alcohol).
Ether, dms., 5 gal., frt. allid., gal. .55 - —
55 gals., c.l., E. of Miss., frt. allid..gal. .35 - —
55 gals., c.l., W. of Miss., frt. allid..gal. .39 - —
l.c.l., E. of Miss., frt. allid., gal. .44 - —
tanks, E. of Miss., frt. allid., gal. .35 - —
W. of Miss., frt. allid., gal. .39 - —

J

Jaborandi leaves, bls.....lb. .11 - .12
Jalap root, NF, bls.....lb. .28 - .31
powd., bbls., bxs.....lb. .30 - .32
resin, lump, 100-lb. lots, cns.lb. 5.85 - —
powd., bxs.....lb. 5.90 - —
Juniper berries, bgs.....lb. Nominal

K

Kamala, tins.....lb. .30 - .32
Kaolin (see China clay).
Kava kava root, bls.....lb. .14 - .16
Kerosene at refinery:—
Bayonne, 41-43 w.w., tanks, gal. .0530- —
California (f.o.b. San Francisco) truck..gal. .11½- —
Gulf ports, p.w., bulk.....gal. .07½- —
Louisiana - Arkansas, 41-43 w.w., bulk..gal. .03¾- .04¼
Oklahoma-Texas, 41-43 w.w., tanks..gal. .03¾- .04⅛
Pennsylvania, 45 w.w., tanks, gal. .05 - .05¼
Kieserite, cal., 96-98% $MgSO_4$, bgs., c.l., ex vessel Atlantic, Gulf ports, duty pd..ton. No prices
Kola nuts, bgs.....lb. .08 - .09

L

Lady slipper root, bls.....lb. .36 - .37
Lanolin (see Adeps lanae).
Lard, city, tubs.....100 lbs. 6.50 - 6.60
Middlewestern, trcs....100 lbs. 5.90 - 6.00
Neutral, trcs.....100 lbs. 7.50 - 7.75
Western, choice, trcs..100 lbs. 5.95 - 6.10
Compound, trcs.....100 lbs. 8.75 - 9.00
Larkspur seed, bgs.....lb. 1.60 - 1.70
Laurel berries, bls.....lb. .25 - .26
Leaves, Greek, bls.....lb. .30 - .32
Turkish, bls.....lb. No stocks
Lavender flowers, ordinary, bls.lb. .50 - .55
medium, bls.....lb. .55 - .60
select, bls.....lb. .65 - .70
Lead acetate, white, broken, bbls., lb. .11 - —
cryst., bbls.....lb. .11 - —
gran., bbls.....lb. .11¾- —
powd., bbls.....lb. .11¾- —
Arsenate, bgs., c.l.....lb. .09 - .09½
l.c.l., bgs.....lb. .09½- .10
Lead arsenate prices are works or whse. basis, frt. alld .to dest. in lots of 96 lbs. or over; no frt. or truck allowance for works or whse. pick ups.
Blue, basic sulphate, bbls., c.l., dlvd. E..lb. .06¼- —
dlvd., Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo..lb. .06¼- —
l.c.l., dlvd. E.....lb. .06½- —
dlvd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo..lb. .07 - —
Carbonate (see Lead, white).
Lead, chloride, pure, bots., 5 lbs..lb. .62 - —
fib. dms., 25 lbs.....lb. .40 - —
Iodide, NF V, powd., 5-lb. bots., lb. 2.60 - —
jars.....lb. 2.55 - —
Linoleate, pale, precip., dms. lb. .19 - —
Metal (see daily quotations in market report).
Metallic, paste, 200-lb. cont., f.o.b. works..lb. .10 - —
5-lb. cont., f.o.b. works...lb. .22 - —
Nitrate, bbls.....lb. .11 - .14
Oleate, bbls.....lb. .18½- .20
Peroxide, powd., bbls., tech..lb. .23 - —
Red, dry, 95% or less, Pb_3O_4, bbls., c.l. (20 tons), dlvd., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash.....lb. .06¼- —
other points.....lb. .06 - —
l.c.l., 5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. Cascade Mts. in Ore. and Wash..lb. .06¾- —
Colo., Mont., N. Mex., Wyo..lb. .06 - —
other points.....lb. .06¼- —
smaller lots, Ala., etc...lb. .06¾- —
Ariz., etc.....lb. .06¾- —
Colo., etc.....lb. .06¼- —
other points.....lb. .09 - —
97%, Pb_3O_4, bbls., c.l. (20 tons), dlvd., Ala., etc..lb. .08½- —
other points.....lb. .05¼- —
l.c.l., 5 tons, dlvd., Ala., etc..lb. .09 - —
Ariz., etc.....lb. .09¼- —
Colo., etc.....lb. .09¾- —
other points.....lb. .09¾- —
smaller lots, dlvd. Ala..lb. .09½- —
Ariz., etc.....lb. .10 - —
Colo., etc.....lb. .09¾- —
other points.....lb. .09¼- —
98%, Pb_3O_4, bbls., c.l. (20 tons, dlvd., Ala., etc..lb. .08¾- —
other points.....lb. .08½- —
l.c.l., 5 tons, dlvd., Ala., etc..lb. .09¼- —
Ariz., etc.....lb. .09¾- —
Colo., etc.....lb. .09½- —
other points.....lb. .09¼- —
in oil, 95% min., 100-lb. kgs., lb. .12¼- —
Resinate, fused 15%, bbls...lb. .09½- —
pale, bbls.....lb. .11¾- —
Silicate, bgs., 5 tons.....lb. 6.38 - —
smaller lots.....lb. 6.80 - —
Stearate, bbls.....lb. .35 - —
Sulphate (see Lead, white basic sulphate).
Titanate, bgs. or bbls., c.l. (20 tons), works, frt. allid..lb. .10¼- —
l.c.l., 5 tons, one delvy., E. frt. allid..lb. .10½- —
Pac. Cst., ex whse...lb. .10¾- —
smaller lots, E. frt. allid..lb. .10¾- —
Pac. Cst., ex whse....lb. .10¾- —
White, dry, basic carbonate, bbls., c.l., dlvd., Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash. and Wyo..lb. .07¾- —
other points.....lb. .07½- —
l.c.l., dlvd., Ariz., etc..lb. .08 - —
other points.....lb. .07¾- —
basic sulphate, bbls., c.l., dlvd., Ariz., etc..lb. .06¾- —
other points.....lb. .06¼- —
l.c.l., dlvd., Ariz., etc..lb. .07 - —
other points.....lb. .06¾- —
in oil, 100-lb. kgs., consumers, lb. .12¾- —
dealers.....lb. .10¾- —
painters.....lb. .11¾- —
Consumers' price and painters' price are ½c. lower on orders of 500 lbs. or more.
Lecithin, 100%, cns., f.o.b., N. Y. or Chi..lb. 2.50 - —
edible, grade 1, dms., c.l., same l.c.l., same basis..lb. .47½- .65
grades 2 or 3, dom., c.l., same basis..lb. .47½- —
l.c.l., same basis.....lb. .50 - .67½
grade 4, dms., c.l., same basis..lb. .50 - —
l.c.l., same basis.....lb. .52½- .70
purified, cs., dms., c.l., same basis..lb. .65 - —
l.c.l., same basis.....lb. .67½- .85
tech., grade 1, dms., c.l., same basis..lb. .35 - —
l.c.l., same basis.....lb. .37½- .55
grade 2 or 3, dms., c.l., same basis..lb. .37½- —
l.c.l., same basis.....lb. .40 - .57½
grade 4, dms., c.l., same basis..lb. .40 - —
Lecithin prices quoted above are for goods packed in 25, 50 or 100-lb. dms. When goods are packed in 500-lb. dms. prices are 1c. per lb. less.
Lemon peel, bls.....lb. .13 .15
Licorice extract, mass, cs....lb. No prices
powd., bbls.....lb. No prices
root, cuttings, bls.....lb. .11 - .12
powd., bbls.....lb. .12 .13
select, bdls., cs.....lb. .50 - .60
Lime, chemical (quicklime), lump or pebble, bulk, f.o.b.
Bellefonte, Pa.....ton. 7.00 - —
Berkley, W. Va.....ton. 7.00 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa....ton. 8.50 - —
Crab Orchard, Tenn..ton. 8.25 - —
Eagle Mountain, Va..ton. 7.00 - —
Faruams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio....ton. 7.00 - —
Hannibal, Mo.....ton. 6.50 - —
Keystone, Ala.....ton. 7.00 - —
Knoxville, Tenn....ton. 8.25 - —
Limedale, Ark.....ton. 7.00 - —
Longview, Ala.....ton. 8.25 - —
Manistique, Mich....ton. 8.00 - —
Martinsburg, W. Va..ton. 7.00 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 8.50 - —
Newala, Ala.....ton. 8.25 - —
Rincon, Cal.....ton. 13.00 - —
Ripplemead, Va.....ton. 7.00 - —
Riverton, Va.....ton. 7.00 - —
San Francisco, Cal..ton. 13.00 - —
Scioto, Ohio.....ton. 6.50 - —
Springfield, Mo.....ton. 7.00 - —
Woodville, Ohio.....ton. 7.00 - —
York, Pa.....ton. 7.00 - —
hydrated, paper bags, f.o.b.
Bellefonte, Pa.....ton. 8.50 - —
Berkley, W. Va.....ton. 8.50 - —
Buffalo, N. Y.....ton. 10.00 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa....ton. 8.50 - —
Crab Orchard, Tenn..ton. 9.00 - —
Eagle Mountain, Va..ton. 9.00 - —
Faruams, Mass.....ton. 8.50 - —

Lime, hydrated, paper bags, f.o.b.
Gibsonburg, Ohio....ton. 8.50 - —
Hannibal, Mo.....ton. 8.50 - —
Keystone, Ala.....ton. 9.00 - —
Knoxville, Tenn....ton. 9.00 - —
Le Roy, Minn.....ton.10.00 - —
Le Roy, Minn.....ton.10.00 - —
Lime Crest, N. J....ton. 8.50 - —
Limedale, Ark.....ton. 9.00 - —
Longview, Ala.....ton. 9.00 - —
Louisville, Ky.....ton.14.50 - —
Manistique, Mich....ton. 9.00 - —
Marblehead, Ohio....ton. 9.50 - —
Martinsburg, W. Va..ton. 8.50 - —
Mitchell, Ind.....ton. 9.00 - —
Newala, Ala.....ton. 9.00 - —
Potonkey, Mich.....ton. 9.00 - —
Port Island, Mich....ton. 9.00 - —
Rapid City, S. D....ton.12.00 - —
Ripplemead, Va.....ton. 9.00 - —
San Francisco, Cal..ton.16.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
spray, paper bags, f.o.b. Bellefonte, Pa...ton. 9.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio....ton.11.00 - —
Lime Crest, N. J....ton. 8.50 - —
Marblehead, Ohio....ton.11.00 - —
Sciotc, Ohio.....ton.10.00 - —
Woodville, Ohio....ton.11.00 - —
York, Pa.....ton. 9.00 - —

Lime salts (see Calcium).

Lime-sulphur, dry, dealers, bgs., c.l., E. of and incl. N. Dak., S. Dak., Neb., Kan., Okla., Tex..lb. .07½- .08½
dms., same basis.....lb. .10½- —
400 lbs., or more, bgs., same basis..lb. .07¾- .08¾
dms., same basis.....lb. .11 - —
less than 400 lbs., same basis, lb. .08½- .09½
dms., same basis.....lb. .12 - —
solution, Zone 1, dms., consumers..gal. .16 - —
Zone 2, tanks, dealers, wks., gal. .08½- —
30-50 dms.....gal. .11 - .16
Zone 3, tanks, dealers .dlvd., gal. .07½- —
30-50 dms.....gal. .10½- .14½
Zone 4, tanks, dealers, wks., gal. .09 - —
dms., wks., except Cal..gal. .12 - —
Zone 5, tanks, dealers, dlvd., gal. .10½- —
dms.....gal. .12 - —
Zone 6, tanks, dealers....gal. .07½- —
30-50 dms.....gal. .10 - .14

Prices for lime sulphur solution are f.o.b. warehouse points, freight allowed. Zone 1: includes Ga., S. C., Ala., N. C., except the counties of Ashe, Surry, Stokes, Rockingham and Alleghany; Tenn., east of Tenn. River. Zone 2: New England States, Zone 3, Ark., Ohio, Ind., Ill., Ia., Ky., Wis., Minn., Mo., and Tenn. west of Tenn. River; Penn., eastern tier, and W. Va. western tier. Zone 4: West of Rocky Mountains, except southern California, which makes up Zone 5. Zone 6: N. Y. east of Herkimer, N. J., Md., Del., Va., Pa.—all counties lying east of the western boundary of Bedford, Blair, Center, Clinton and Potter, W. Va.—counties of Mineral, Hampshire, Morgan, Berkeley, Jefferson, and Hardy, N. C.—counties of Ashe, Alleghany, Surry, Stokes and Rockingham.

Linalool, cns.....lb. 2.75 - 3.30
Linalyl acetate, cns.....lb. 3.20 - 4.25
Linden flowers, with leaves, bis.lb. .45 - .50
without leaves, bis.....lb. .50 Nom.
Linseed cake, bgs., export...ton.21.00 - —
meal, bgs.....ton.24.50 - —
Litharge, com'l powd., bbls., 20-tons, dlvd., Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash..lb. .07¼- —
Other points.....lb. .07 - —
5 tons, dlvd., Ala., Ariz., Cal., Fla., Ga., La., Miss., Okla., Tex. and W. of Cascade Mts. in Ore., and Wash..lb. .07¾- —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash..lb. .08¼- —
Colo., Mont., N. Mex., Wyo..lb. .08 - —
Other points.....lb. .07½- —
smaller lots, dlvd., Ala..lb. .08¼- —
Ariz., etc.....lb. .08¾- —
Colo., etc.....lb. .08¼- —
Other points.....lb. .08 - —
Lithium bromide, bbls., 100 lbs., works, frt. equal'd..lb. 1.90 - —
50 lbs., works.....lb. 1.93 - —
25 lbs., works.....lb. 1.95 - —
Carbonate, 250-lb. bbls.....lb. 1.25 - —
100-lb. kgs.....lb. 1.30 - —
Chloride, 25-lb. jars.....lb. 1.65 - 1.70
Citrate, 250-lb. bbls.....lb. 1.40 - —
25-lb. dms.....lb. 1.45 - —
100-lb. kgs.....lb. 1.40 - —
Fluoride, bbls.....lb. 2.10 - 2.25
Iodide, 5-lb. bots.....lb. 4.85 - —
25-lb. jars.....lb. 4.70 - —
Lithopone, titanated (high-strength), bgs., c.l. (20 tons)..lb. .06¼- —
smaller lots.....lb. .06½- —
bbls., c.l., (20 tons).....lb. .05½- —
smaller lots.....lb. .05¾- —
ordinary, bgs., c.l. (20 tons)..lb. .0385- —
smaller lots.....lb. .0410- —
bbls., c.l. (20 tons).....lb. .0410- —
smaller lots.....lb. .0435- —
Lithopone in car lots is delivered East or the Pacific Coast and in less than car-lot quantities delivered East or ex warehouse Pacific Coast.
Liverwort leaves, bls.....lb. .60 - .65
Lobelia, herb, bls.....lb. .20 - .21
Seed, bgs.....lb. .35 - .36
Logwood extract, cryst., bbls..lb. .20 - .24
liquid, 51°, bbls.....lb. .10¼- .12½
solid, bxs.....lb. .16½- .20½
Lovage root, dms., bls.....lb. .45 - .50
imported, bls.....lb. .45 Nom.
Lupulin, N. E., tins.....lb. 1.65 - 1.70
Lycopodium, cs.....lb. 4.50 - 4.75

M

Mace, Banda, cs.....lb. .45½- .46
Batavia, cs.....lb. .23 - .23½
Sturw, cs.....lb. .20 - .21
West Indian, cs.....lb. .31 - .32
Madder, Dutch, bbls.....lb. .22 - .26
Magnesia, arsenate, dms.....lb. .18 - .20
Calcined, tech., USP, bbls., wks..lb. .26 - —
Carbonate, tech., Zone 1, c.l., bgs..lb. .06¾- —
bbls.....lb. .07¼- —
kgs.....lb. .08¾- —
l.c.l., bgs.....lb. .07¼- —
bbls.....lb. .08½- —
kgs.....lb. .09¾- —
Zone 2, c.l., bgs.....lb. .06¼- —
bbls.....lb. .07½- —
kgs.....lb. .08¾- —
l.c.l., bgs.....lb. .07 - —
bbls.....lb. .08½- —
kgs.....lb. .09½- —
USP, Zone 1, c.l., bgs.....lb. .06 - —
bbls.....lb. .06½- —
kgs.....lb. .09¾- —
l.c.l., bgs.....lb. .09 - —
bbls.....lb. .09½- —
kgs.....lb. .10¾- —
Zone 2, c.l., bgs.....lb. .06 - —
bbls.....lb. .06½- —
kgs.....lb. .09¾- —
l.c.l., bgs.....lb. .09¾- —
bbls.....lb. .09½- —
kgs.....lb. .10¾- —
Other points.....lb. .06 - —
Magnesia:—Zone 1—Mass., Conn., R. I., N.Y., N.J., Pa., D. of C., Del. and Md., c.l., shipments, frt., equald., with Phillipsburg, Ambler, Plymouth Meeting, Valley Forge, and New York. On l.c.l. shipments, fr't alld., including dlvd. storedoor. Magnesia prices are f.o.b. Plymouth Meeting. Zone 2—Balance of U.S.; prices f.o.b. Plymouth Meeting, Ambler, Phillipsburg, Valley Forge, and New York.
Magnesium, chloride, anhyd., dom., bbls., dlvd..lb. .18 - —
flake, dom., bbls., wks., c.l., tons.32.00 - —
l.c.l., bbls., wks.....ton.39.00 -42.00
Hydroxide, med., 200-lb. bbls., lb. .25 - —
25-lb. dms.....lb. .30 - —
100-lb. kgs.....lb. .28 - —
Hypophosphate, cns., 100 lbs.lb. 1.45 - —
25 lbs.....lb. 1.50 - —
Oxide (see Calcined).
Palmitate, bbls.....lb. .33 Nom.
Peroxide, 15%, dms., worlzs..lb. 1.60 - 1.85
Silicate (see Talc).
Silicofluoride, bbls.....lb. .11 - .11¼
Stearate, bbls., ctns., c.l.....lb. .28 - —
1 ton.....lb. .24 - —
1,000-2,000 lbs.....lb. .25 - —
smaller lots.....lb. .26 - —
Sulphate (see Epsom salt).
Trisilicate, 1,000-lb. contracts, dms..lb. .40 - —
smaller lots, dms.....lb. .45 - —
cs., 500-lb. lots.....lb. .43 - —
100-lb. lots.....lb. .45 - —
5-lb. cns.....lb. .63 - —
Magnesite, cal., dom., bgs....ton.65.00 -70.00
imports, bgs., duty paid...ton.70.00 Nom.
dead-burned, dom., bulk, c.l., f.o.b. Chewelah, Wash...ton.22.00 -25.00
dms., 25 lbs.....lb. .30 - —
kgs., 100 lbs.....lb. .26 - —
Malva flowers, black, bls.....lb. .90 - .95
blue, bls.....lb. .90 - .95
Leaves, bls.....lb. .40 - .45
Manaca root, bls.....lb. .23 - .24
Mandrake root, bls.....lb. .12 - .13

Lime, Hydrated—Mercury Cyan.

Manganese acetate, dms.....lb. .26½- —
Arsenate, bgs.....lb. .13 - .13½
Borate, tech., bbls.....lb. .15 - .16
Carbonate, bbls.....lb. .19 - —
Chlorides, bbls.....lb. .14 Nom.
Dioxide, African, battery, 84-87%, bbls., 28-40 tons, works, ton.71.50 - —
5-15 tons, works.....ton.74.50 - —
½-4 tons, works.....ton.79.50 - —
Caucasian, 85-90%, bbls., c.l., works..ton.74.00 - —
l.c.l., 5 tons, works....ton.77.00 - —
smaller lots, works..ton.82.00 - —
burlap bgs., c.l., works, ton.71.75 - —
l.c.l., 5 tons, works..ton.74.75 - —
smaller lots, works..ton.79.75 - —
paper bgs., c.l., works.ton.70.00 - —
l.c.l., 5 tons, works..ton.73.00 - —
Glycerophosphate, bbls., kgs., 1,000-lb. lots..lb. 2.80 - —
smaller lots.....lb. 3.00 - —
cns., 25 lbs.....lb. 3.12 - —
Hydrate, bbls., dlvd.....lb. .32 - —
Iodide, bots., 5 lbs.....lb. 5.55 - —
jars, 25 lbs.....lb. 5.70 - —
Linoleate, liquid, 4%, dms...lb. .18 - .19½
solid, precip., 8.2%, bbls...lb. .19 - —
Ore, Cuban, 51-52%, basis Atl. ports..unit-ton. .71 Nom.
Resinate, fused, 3½%, bbls..ton. .08¼- .08½
precip., dms.....lb. .12 - —
Sulphate, anhyd, ton lots, works..lb. .10½- —
single bbls., works.....lb. .10¾- —
fertilizer, 65%, MnSo4, bgs., c.l., dlvd.,South..ton.67.00 - —
l.c.l., bgs.....ton.65.00 -75.00
Mangrove bark, bgs., shipt...ton.34.00 - —
Manna flake, large, cs.....lb. 2.00 Nom.
small, cs.....lb. 1.80 Nom.
Mannitol, com'l grade, bbls., ton lots, works..lb. .35 - —
smaller lots, works.....lb. .40 - —
reagent grade, 50-lb. cs., or multiples, works..lb. .85 - —
Marble flour, bgs.....ton.12.00 -14.00
Marjoram, French, No. 1.....lb. .56 - .58
Tunisan, bls.....lb. .23 Nom.
Chilean.....lb. .11 - .11¼
Menthol, natural, Chinese, cs..lb. 4.00 - 4.25
Japanese, cs.....lb. 4.00 - 4.10
synthetic, USP, cs.....lb. 3.65 - —
Menthyl salicylate, tins, 100-lb. lots..lb. 3.00 - —
25-lb. lots.....lb. 3.10 - —
Mercurial ointment, 30%, pails, 50 lbs.....lb. 1.44 - —
25 lbs.....lb. 1.46 - —
50%, pails, 50 bs.....lb. 2.09 - —
25 lbs.....lb. 2.11 - —
Mercury (see Quicksilver).
Ammoniated (see White precipitate).
Bichloride (see Corrosive sublimate).
Bisulphate, 5-lb. bots.....lb. 2.02 - —
100-lb. fib. dms.....lb. 2.89 - —
25-lb. jars.....lb. 2.91 - —
Chloride (see Calomel).
Cyanide, cryst.....lb. 4.00 - 4.08
powd.....lb. 4.05 - 4.10

Lecithin

(Vegetable)

Now available in either Soya Bean Oil or Cocoa Butter carrier for prompt delivery direct from factory.

For Export, packed in 100-lb. crated steel-strapped cans or 450-lb. open-head drums.

Our Lecithin is manufactured exclusively from American raw materials by an American process in an American plant.

Inquiries for these and other chemicals are invited.

TARTARIC ACID • CREAM OF TARTAR • ROCHELLE SALT
CITRIC ACID • SAPONIN • ACETIC ANHYDRIDE
ETHYLENE DIAMINE • SODIUM PERBORATE

NEUBERG CHEMICAL CORPORATION

441 LEXINGTON AVENUE, NEW YORK CITY • TELEPHONE MURRAY HILL 6-1990

Mercury Iodide—Mica

Mercury, iodide, red, NF, 5-lb. bots..lb. 4.71 - —
100-lb. fib. dms.....lb. 4.60 - —
yellow, 5-lb. bots.....lb. 4.61 - —
fib. dms., 100 lbs.....lb. 4.70 - 4.75
Nitrate ointment (see Citrine ointment).
Oxide, red, NF (see Red precipitate).
tech. (see Red, mercury oxide).
yellow, dom., tech., bbls...lb. 2.59 - —
USP, fib. dms., 50 lbs. or more..lb. 3.18 - —
Mercury and chalk, 5-lb. cans..lb. 1.92 - —
25-lb. fib. dms.....lb. 1.86 - 1.86
Mesityl oxide, cns., works....lb. .20½- —
dms., c.l., divd.....lb. .16 - —
l.c.l., divd.....lb. .16½- —
tanks, divd.....lb. .15 - —
Metal leaf, pkgs. of 20 books (500 leaves), aluminum, 5½x5½ in..pkg. 1.50 - 1.75
composition, 5½x5½ in....pkg. 1.70 - 1.80
gold, XX deep, 23K, 3⅜x3⅜ in. pkg.15.25 -15.75
3⅜x3⅜ in.....pkg.16.15 -17.50
4x4 in.....pkg.19.50 -20.00
3⅜x5½ in.....pkg.22.50 -23.00
3⅜x5½ in.....pkg.24.50 -25.00
silver, 3⅜x3⅜ in.....pkg. 2.75 - 2.85
Metanitroparatoluidin, bbls....lb. 1.05 - 1.10
Metaphenylenediamine, kgs....lb. .62 - —
Metatolylenediamine, kgs.....lb. .65 - —

Methanol, natural, producer group A, denat., grade tanks...gal. .40 - —
97%, tanks.....gal. .36 - —
95%, tanks.....gal. .29 - —
Methanol in drums, car lots, is 5c. per gal. higher, frt. alld., east of the Rocky Mts. Prices on the Pacific Coast are 8c. higher on tanks and 4c. per gal. higher on drums; car lots.

Methanol, natural, producer group B, pure, tanks, frt. alld. Zone, 1..gal. .30 - —
Zone 2.....gal. .32 - —
Zone 3.....gal. .34 - —
Zone 4.....gal. .34½- —
dms., c.l., Zone 1.....gal. .35½- —
Zone 2.....gal. .37½- —
Zone 3.....gal. .39½- —
Zone 4.....gal. .41½- —
l.c.l., Zone 1.....gal. .38 - —
Zone 2.....gal. .45½- —
Zone 3.....gal. .42 - —
Zone 4.....gal. .53½- —
group B, 95%, frt. alld., prices 2c. less than pure, all zones.

97%, frt. alld., prices 1c. less than pure, all zones.

Natural methanol sales zones are:—Zone 1, Conn., Del., D. of C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Tenn., R. I., Vt., Va., W. Va., Wisc.; zone 2, Ala., Ark., Col., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo.; zone 3, Los A., San Fran., Seattle, Wash., Portland, Ore.; zone 4, Ariz., Cal., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash.

Methanol, synthetic, pure, dms., c.l., Zone 1, frt. alld..gal. .35½- —
2, frt. alld.....gal. .37½- —
3, frt. alld.....gal. .39½- —
4, frt. alld.....gal. .41½- —
l.c.l., Zone 1, frt. alld. or divd..gal. .38 - —
2, frt. alld. or divd..gal. .45½- —
3, divd., S. F. and L. A., gal. .42 - —
4, frt. alld. or divd..gal. .53½- —
tanks, Zone 1, frt. alld..gal. .30 - —
2, frt. alld.....gal. .32 - —
3, frt. alld.....gal. .34 - —
4, frt. alld.....gal. .34½- —
Synthetic methanol sales zones are:—Zone 1, Conn., Del., D. C., Ill., Ind., Iowa, Ky., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., S. C., Tenn., Vt., Va., W. Va., Wis.; Zone 2, Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. D., Tex., Wyo.; Zone 3, Los Angeles, Cal.; San Francisco, Cal.; also (c.l. only) Portland, Ore., and Seattle, Wash.; Zone 4, Ariz., Cal., N. Mex., Mont., Nev., Idaho, Ore., Utah, Wash.

Methyl acetate, 97-98%, dms., c.l., E. of Miss. R..lb. .10½- —
W. of Miss. R.....lb. .11½- —
l.c.l., dms., divd. E. of Miss. R..lb. .11 - —
W. of Miss. R.....lb. .12 - —
tanks, divd. E. of Miss.. R. lb. .09½- —
W. of Miss. R.....lb. .10½- —
tech., dms., c.l., divd., E. of Miss. R..lb. .07 - —

Methyl acetate, tech., dms., W. of Miss. R..lb. .08 - —
l.c.l., divd., E. of Miss. R..lb. .07½- —
W. of Miss. R.....lb. .08½- —
tanks, divd., E. of Miss. R., lb. .06 - —
W. of Miss. R.....lb. .07 - —
Acetoacetate, dms., c.l., works, frt. alld..lb. .29½- —
Acetone, natural, group A producers, E. of Rockies, frt. alld., tanks..gal. .32 - —
dms., c.l., same basis...gal. .37½- —
l.c.l., same basis...gal. .40 - —
Methyl acetone prices on Pacific Coast are 5c. per gal. higher on tanks and 4c. per gal. higher on drums, car lots.

Methyl acetone, natural, group B producers, tanks, Zone 1.gal. .32 - —
Zone 2.....gal. .34 - —
Zone 3.....gal. .36 - —
Zone 4.....gal. .36½- —
dms., c.l., Zone 1.....gal. .37½- —
Zone 2.....gal. .39½- —
Zone 3.....gal. .41½- —
Zone 4.....gal. .43½- —
l.c.l., Zone 1.....gal. .40 - —
Zone 2.....gal. .47½- —
Zone 3.....gal. .44 - —
Zone 4.....gal. .55½- —
Natural methyl acetone sales zones are:—Zone 1, Conn., Del., D. of C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., Tenn., Vt., Va., W. Va., Wis. Zone 2, Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo. Zone 3, Los A., San Fran., Seattle, Wash., Portland, Ore. Zone 4, Ariz., Cal., Mont., Nev., N. Mex., Ore., Utah, Idaho, Wash.

Synthetic, tanks, zone 1....gal. .34 - —
Zone 2.....gal. .42 - —
Zone 3.....gal. .45½- —
dms., c.l., zone 1.....gal. .36 - —
Zone 2.....gal. .44 - —
Zone 3.....gal. .48 - —
l.c.l., Zone 1.....gal. .37 - —
Zone 2.....gal. .45½- —
Zone 3.....gal. .48½- —
Alcohol (see Methanol).
Anthranilate, bots.....lb. 2.10 - 2.25
Benzoate, cns., 25 lbs.....lb. .70 - 1.00
Bromide, cyl.....lb. .63 - .75
Chloride, refrigeration, 500 lbs., and up, machine mfrs. and jobbers, cylinders..lb. .32 - —
service men and consumers, cyl..lb. .36 - —
60 to 490 lbs., cyl., mach. mfrs. and jobbers..lb. .36 - —
service men and consumers, cyl..lb. .40 - —
tanks, multi-unit, mach. mfrs. and jobbers..lb. .31 - —
service men and consumers. lb. .35 - —
Methyl chloride quotations are spot or contract, effective July 1, for delivery to any common carrier point in United States. Prices above are in 60, 90 and 180-lb. cylinders. Prices on the 20-lb. cylinders are uniformly 10c. per pound higher than above prices.
Cinnamate, bis.....lb. 2.75 - 3.25
Formate, dms.....lb. .59 - —
Lactate, dms., l.c.l., divd...lb. .80 - —
Iodide, bots.....lb. 3.68 - 3.82
Salicylate, dms.....lb. .35 - .37
cns.....lb. .37 - .40
Molybdated violet toner, bbls.lb. .35 - —
Methylamyl ketone, dms., works, l.c.l..lb. .25 - —
smaller containers, same basis, lb. .28 - —
Methylcellulose, dms, c.l., works, lb. .47 - —
2,000 lbs. or more, works, lb. .50 - —
100 to 1,999 lbs., works.. lb. .53 - —
1 to 99 lbs., works.....lb. .60 - —
Methylcyclohexane, 98-100%, dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%, dms., works..lb. .28 - —
Methylcyclohexanone, 98 - 100%, dms., works..lb. .32 - —
Methylene blue, medcl., kgs., 100 lbs..lb. 2.00 - —
cns., 5 lbs.....lb. 2.35 - —
Chloride, dms., f.o.b. works..lb. .18 - .22
Methylethyl ketone, dms., c.l., frt. pd. E. of Rocky Mts., lb. .07 - .07¼
l.c.l., same terms.....lb. .07½- .08
tanks, same terms.....lb. .06 - .06½
Methylheptenone, bots.....lb. 2.45 - 3.00
Methylhexyl ketone, dms., tech., works..lb. .60 - —
Methylisobutyl ketone, dms., 55-gal., c.l., works..gal. .70 - —
l.c.l., works.....gal. .80 - —
smaller containers, works.gal. 1.00 - —
tanks, works.....gal. .70 - —
Methylnaphthyl ketone, dom., cryst., bots..lb. 3.25 - 3.50
imp., bots.....lb. 3.10 - —
Metronite pigment, 120 mesh, containers extra, c.l., f.o.b. Milwaukee..ton. 9.00 - —
l.c.l., same basis...ton.11.00 - —
180 mesh., containers extra, c.l., same basis..ton.11.00 - —
l.c.l., same basis.....ton.13.00 - —
250 mesh., containers extra, c.l., same basis..ton.12.00 - —
l.c.l., same basis.....ton.14.00 - —
325 mesh, containers extra, c.l., same basis..ton.15.00 - —
l.c.l., same basis.....ton.17.00 - —
400 mesh, containers extra, c.l., same basis..ton.17.50 - —
l.c.l., same basis.....ton.19.50 - —
Mica, dry grd., amber, No. 1 quality, bgs., extra and returnable, c.l., works..ton.30.00 - —
l.c.l., 5,000 lbs., works. ton.40.00 - —
1,000 lbs., works..lb. .02 - —
500 lbs., works..lb. .02½- —
100 lbs., works..lb. .03 - —
refined, bgs., extra and returnable, c.l., works. ton.30.00 - —
l.c.l., 5,000 lbs. works. ton.39.00 - —
paint, bgs. extra and returnable, c.l., works..ton.55.00 - —
l.c.l., 5,000 lbs. works. ton.65.00 - —
white, No. 1 quality, bgs. extra and returnable, c.l., works..ton.35.00 - —
l.c.l., 5,000 lbs., works. ton.45.00 - —
1,000 lbs., works..lb. .02½- —
500 lbs., works..lb. .03 - —
roofing, bgs., extra and returnable, c.l., works..ton.29.00 - —
l.c.l., 5,000 lbs., works. ton.39.00 - —
paint, bgs extra and returnable,c.l., works..ton.60.00 - —
l.c.l., 5,000 lbs., works. ton.70.00 - —

I'M A PAIL WITH A TALE TO TELL...

I'LL admit it's a little out of the ordinary for a pail to take over an ad. But I've got my reasons . . . and here they are:

1 To begin with, I'm a very versatile container. I carry solids, semi-solids or powdered products with ease and economy. What's more, I come plain, coated or lithographed . . .

LIKE THIS →

AND THIS →

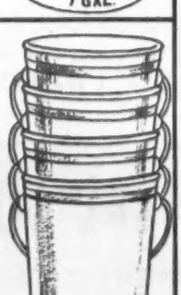
AND THIS →

2 I also come in two sizes—5-gallon and 7-gallon. I have an easy-locking lug cover that's a swell feature and a great convenience—a cinch to put on or take off. When I'm packed, and my cover's on, I look . . .

LIKE THIS →

OR THIS →

3 My sides are slightly tapered, too. Why? So that when I'm empty I can nest with lots of other pails and drums like me. That makes all of us less bulky to handle . . . and saves *you* plenty of storage space . . .

LIKE THIS → 

4 Another big advantage: I can be stacked firmly on top of other pails when my cover is on. How come? My tapered sides again. Notice how they let the bottom fit snugly inside the top of the pail below me . . .

LIKE THIS →

5 I'm light but strong—economical to ship, easy to carry. And speaking of shipping, I'm a one-way container for many products . . .

ALL Continental containers offer you quality and economy *plus* many exclusive and distinctive features of construction and design. Add to these advantages our long experience in supplying the packaging needs of the industry, our famous research, development, and packaging design service, and you'll know why so many leading manufacturers do business with Continental. For better containers and complete service—come to Continental.

CONTINENTAL CAN COMPANY

OFFICES AND PLANTS IN ALL PRINCIPAL CITIES

Mica, wet-ground, paint or lacquer, bgs., c.l., frt. alld. E..lb. .04½- —
l.c.l., ex whse., or frt. alld. E..lb. .05 - —
paper, wall or coated, bgs., c.l., frt. alld. E..lb. .04½- —
l.c.l., ex whse., or frt. alld. E..lb. .04½- —
rubber, bgs., c.l., frt. alld. E..lb. .04¼- —
l.c.l., ex whse., or frt. alld. E..lb. .04½- —
Biotite, bgs., c.l., frt. alld. E..lb. .03½- —
l.c.l., ex whse. or frt. alld. E..lb. .04 - —
wet-ground mica prices are ½c. per pound higher west of Rockies.
Milk powder, skimmed, roller, bbls., c.l.. .07 - —
l.c.l. ..lb. .08 - —
spray, bbls., c.l.....lb. .07½- —
l.c.l. ..lb. .08½- —
unskimmed, roller, bbls., c.l. lb. .13½- —
l.c.l. ..lb. .16½- —
spray, bbls., c.l.....lb. .16 - —
Millet seed, yellow, bgs.....lb. .0250- .0280
early fortune, bgs.....lb. .02½- .06
hulled, bgs.....lb. .06½- .06¾
Mineral spirits (see Petroleum thinners and V M & P naphtha).
Molasses, blackstrap, tanks, f.o.b. No. Atlantic ports..gal. .07 - —
f.o.b. Gulf ports.....gal. .06½- .06¾
Molybdate orange (see Orange, molybdate).
Molybdenum metal kgs., 99% powd..lb. 2.60 - 3.00
Trioxide, pure, kgs., basis Mo. content, works..lb. .95 - —
technical, kgs., basis Mo. content, works..lb. .80 - —
Monoamylamine, dms., c.l., wks. lb. .52 - —
l.c.l., works.....lb. .53 - .55
tanks .....lb. .50 - —
Monobutylamine, dms., c.l., wks. lb. .50 - —
l.c.l., works.....lb. .51 - .53
tanks, works.....lb. .48 - —
Monochlorobenzene, dms., l.c.l. lb. .06 - .08
Monoethanolamine, dms.. c.l., works..lb. .24 - —
l.c.l., dms.....lb. .25 - —
tanks .....lb. .23 - —
Monoethylamine, basis 100% amine content, dms., l.c.l., works. lb. .65 - —
Monoethylanilin, dms .....lb. .77 Nom.
Monomethylamine, dms., c.l., divd..lb. .65 - —
l.c.l., divd.....lb. .70 - —
Monomethylpara-aminophenol sulphate, dms..lb. 3.75 - 4.00
Monosodiumphosphate (see Soda phosphate monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 ozs.....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
bots., 25 ozs.....oz. 8.80 - —
Ethylhydrochloride, bots., 5 ozs., oz.10.75 - —
cns., 25 ozs.....oz.10.55 - —
Hydrobromide, bots., 5 ozs..oz. 8.95 - —
cns., 25 ozs.....oz. 8.75 - —
Sulphate, bots., 5 ozs..... ..oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Morpholine, dms., 55 gals., l.c.l. works..lb .67 - —
smaller containers, works....lb. .75 - —
Mullein leaves, cans.....lb. .15 - .16
flowers, cns.....lb. 2.00 Nom.
Musk, nat., Tonquin, grained, bots..oz.24.00 -36.00
synth., ambrette, cns., 100 lbs. or more..lb. 2.65 - —
5 lbs., to 75 lbs.....lb. 2.85 - —
1 lb.....lb. 3.95 - —
ketone, cns., 100 lbs. or more, lb. 3.70 - —
5 lbs. to 75 lbs.....lb. 3.95 - —
1 lb.....lb. 4.10 - —
xylol, cns., 100 lbs. or more, lb. 1.05 - —
5 lbs. to 75 lbs.....lb. 1.15 - —
1 lb.....lb. 1.20 - —
Musk root, bls.....lb. .80 - .90
Mustard seed, California, brown, lb. .15¾- .16¼
yellow, bgs.....lb. .16½- .17
Chinese, yellow, bgs.....lb. .09½- .10
Danish, yellow.....lb. .23 - .24
Dutch, yellow, bgs.....lb. .21 - .22
English, yellow, bgs.....lb. No stocks
Montana, yellow, bgs.....lb. .11½- .12
Roumanian, yellow.....lb. .16 - .16¼
Myrobalans, J1, bgs., f.a.s....ton.35.00 - —
J2, bgs., f.a.s.....ton.26.00 - —
Extract, liquid, 25%, bbls....lb. No prices
solid, 50%, bbls.....lb. No prices
powdered, 70%, bbls.....lb. .06 Nom.

N

Naphtha, Painters (see Petroleum, naphtha, V. M. & P.).
Solvent (see S).
Naphthalene, crude, dem., 74 deg., tanks, works....100 lbs. 2.25 - —
78 deg. tanks, works.100 lbs. 2.50 - —
refined, balls or flakes, bbls., wholesalers and jobbers, f.o.b. works..lb. .07 - —
50-lb. cs., same basis...lb. .07¼- —
pkgs. (16 oz.), same basis, lb. .07¾- —
(12 oz.), same basis..pkg. .06¼- —
Neroli, cryst., cns.....lb. 1.25 - 1.35
Nickel carbonate, bbls.....lb. .36 - .36½
Chloride, bbls.....lb. .18 - .20
Cyanide, 100-lb. dms.....lb. 1.40 - —
25-lb. bot.....lb. 1.50 - —
Oxide, black, bbls.....lb. .35 - .39
Salt, bbls.....lb. .13 - .13½
Nicotine sulphate, 40%, dms., works, frt. alld..lb. .70 - —
10-lb. tins.....lb. .86½- —
Nitercake, bulk, works.....ton.16.00 - —
Nitrobenzene, dbl. dist., dms., c.l. lb. .08 - —
l.c.l. ..lb. .09 - —
tanks .....lb. .07 - —
Nitrocellulose, alcohol-soluble, ½ and 40 sec. vis., bbls., works. lb. .23 - —
bronzing, 20, 40, 70 sec. vis., bbls., works..lb. .29 - —
ester, soluble, 30-35 cps., ¼, ½ sec., bbls., c.l., dry weight, works..lb. .23 - —
l.c.l., cps., ¼, ½ sec., bbls., dry weight, works..lb. .26 - —
ester-soluble, 5-6, 15-20, 30-40, and 60-80 sec., bbls., c.l., dry weight, works..lb. .20 - —
l.c.l., 5-6, 15-20 sec., high vis., bbls., works..lb. .25 - —
lacquer, 20-30 and 60-80 sec., vis., bbls., works..lb. .20 - —
Nitrocellulose prices are quoted on the basis of dry weight; denatured alcohol used in manufacture is charged extra. Barrels are to be paid for extra, but are returnable.

Nitroethane, l.c.l., dms., works, lb. .25 - —
Nitrogen solution, nitrogen basis, tanks, f.o.b. Atlantic and Gulf ports..unit-ton.1.2188- —
Nitrogenous fertilizer material, dom., 10% ammon., bulk, f.o.b. Carrollville, Wis., divd..unit-ton. 2.00 - —
f.o.b. Chemical, Ill., unit-ton. 2.00 - —
f.o.b. East Coast producing points..unit-ton. 2.20 - —
import, bgs., c.i.f. Atlantic ports, shipt..unit-ton. No prices
Nitromethane, l.c.l., dms., works, lb. .25 - —
Nitronaphthalene, bbls.....lb. .24 - .25
Nitropropane I, l.c.l., dms., works, lb. .25 - —
II, same basis.....lb. .25 - —
Nutgalls, Alleppo, bgs., oz.....lb. .27 - .29
Chinese .....lb. .16 - .17
Extract (see Gall extract).
Nutmegs, E. I., 80s, bgs., cs...lb. .18 - .18½
110s, bgs., cs.....lb. .16 - .16½
small, grinding, bgs.....lb. .13½- .14
West Indian, bgs.....lb. .09½- .10
Nux vomica, bls.....lb. .05 - .06
powd., bbls., bxs.....lb. .08 - .09

O

Oakbark extract, 25% tan., bbls., c.l., works..lb. .03½- —
l.c.l., bbls., works.....lb. .03¾- —
tanks .....lb. .02¾- —
Ocher (see Yellow).
Octane, 100-140° C., mixed, dms., c.l., G.S..gal. .12½- —
l.c.l., G.S.....gal. .17 - —
tanks, G.S.....gal. .10½- —
Octanol, normal, tech., 350-lb. drms.. divd..lb. .35 - —
Oil, almond, bitter, artif (see Benzaldehyde).
natural, bots.....lb. 8.00 Nom.
a.p.a., bots.....lb. 2.85 - 3.00
sweet, true, exp., cns.....lb. 1.05 - 1.10
Amber, crude, cns.....lb. .35 - .40
ref'd, cns.....lb. 1.20 - 1.25
Amyris, cns.....lb. 3.00 - 3.25
Angelica, seed, bots.....lb.90.00 -100.00
Anilin (see A).
Anise, USP, cns., dms.....lb. .80 - .90
Apricot, kernels, cns.....lb. .43 - .44
Bay, W. I., 50-55% phenols, cns..lb. 1.10 - 1.15
55-60% phenols cns.....lb. 1.20 - 1.25
Bergamot artif., cns.....lb. 2.50 - 3.50
natural coppers.....lb.14.00 Nom.
Birch (see Oil, sweet birch).
Birchtar rectified, cns.....lb. 1.10 - 1.20
crude, cns.....lb. .37 - .38
Bois de rose Brazil cns.....lb. 1.95 - 2.00
Cade USP IX (see Oil Juniper tar).
Cajeput tech. dms.....lb. .65 - .70
USP IX, cns.....lb. .75 - .80
Calamus cns.....lb. 8.25 - 8.50
Camphor, sassafrassy cns...lb. .25 - .26
dms.....lb. .23 - .25
white, cns.....lb. .25 - .26
dms.....lb. .22 - .25
Cananga, native, cns.....lb. No stocks
rectified, cns.....lb. No stocks
Capsicum (oleoresin), USP VIII, cns..lb. 3.50 - 3.75

Mica—Oil, Castor

Oil, caraway, USP, cns.....lb. 3.60 Nom.
Cardamom, bots.....lb.16.00 -18.00
Cassia, USP, cs., dms.....lb. 1.55 - 1.65
Castor, blown, one-way dms., c.l..lb. .11¾- —
l.c.l. ..lb. .13½- —
cold pressed, USP, bbls., c.l., lb. .10¼- —
l.c.l. ..lb. .11 - —
cns. (1-gal.), l.c.l.....lb. .14 - —
dms. (returnable), c.l..lb. .10 - —
l.c.l. ..lb. .10¼- —
(5-gal.), l.c.l.....lb. .13 - —
tanks .....lb. .09¼- —
dehydrated, dms., c.l.....lb. .132 - —
l.c.l. ..lb. .136 - —
tanks .....lb. .12½- —
extracted No. 3, tech., bbls., c.l..lb. .09¾- —
l.c.l. ..lb. .10½- —
dms. (returnable), c.l....lb. .09½- —
l.c.l. ..lb. .10¼- —
tanks .....lb. .09 - —
sulphonated, 50% (43% fat), dms., c.l..lb. .06½- —
l.c.l. ..lb. .07½- —
75% (63% fat), dms., c.l..lb. .09¼- —
l.c.l. ..lb. .10¼- —
80% (68% fat), dms., c.l..lb. .09½- —
l.c.l. ..lb. .10½- —
Castor oil, USP, and No. 3, prices are divd. all points between N. Y. and Philadelphia, Albany, and N. E. States; Chicago c.l. prices ½c. higher than N. Y.; l.c.l. prices ½c. higher than N. Y.; one-way drums, ¼c. higher, all points.

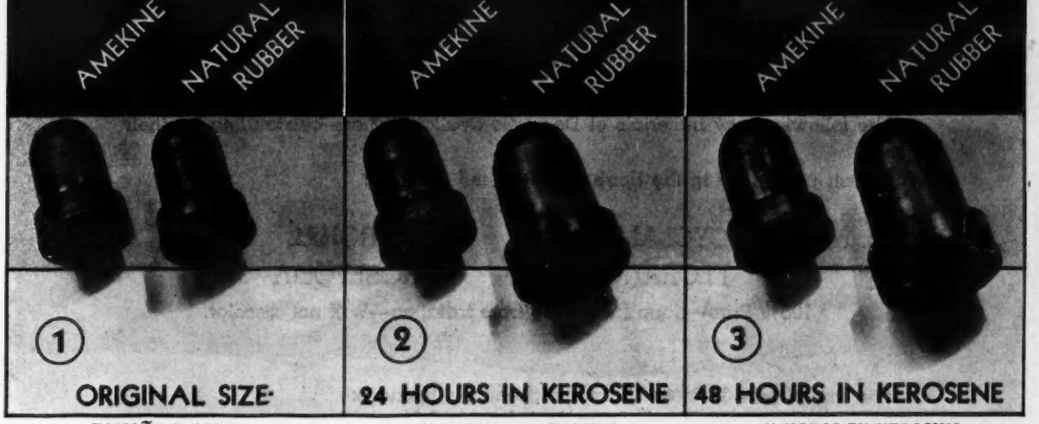
Cuando la goma entra en contacto con los fluídos oleosos, la humedad, el calor o el frío extremados, surge una

LUCHA POR SUBSISTIR

—en que la goma sale perdiendo siempre, a menos que sea de la calidad AMEKINE, pues AMEKINE es la mejor goma sintética, inodora, que existe hasta ahora. Fué perfeccionada especialmente para usarla en los cuentagotas NEW PERFECTION, con particularidad cuando van a usarse productos medicinales de naturaleza oleosa.

HISTORIA VERÍDICA

(Reproduccion Fotografica en Tamaño Exacto)



TAMAÑO ORIGINAL — 24 HORAS EN KEROSINA — 48 HORAS EN KEROSINA

ESTA reproducción fotográfica, sin retocar, muestra exactamente lo que sucedió a dos peras de goma del mismo tamaño original después que se sumergieron en kerosina durante 24 y 48 horas respectivamente. La primera pera es de goma sintética e inodora AMEKINE, y la otra es de goma natural de alta calidad. En esta prueba se empleó kerosina, debido a que en uno o dos días revela los estragos causados a la goma después de varias semanas o meses, por los flúidos oleosos u otras condiciones severas; la hinchará, suavizará, desecará, o desintegrará. ¡En cambio AMEKINE, lejos de deteriorarse, en efecto parece mejorar y adquirir mayor firmeza! ¡En lugar de endurecerse o resecarse, se vuelve más flexible!

MUCHAS CLASES DE GOMA SINTETICA CONTIENEN HASTA 50 o 60% de CAUCHO NATURAL, y despiden un fuerte olor que contamina las medicinas. ¡No deje usted que se experiencia con estas clases le influya contra AMEKINE! Pues AMEKINE contiene la menor cantidad posible de caucho natural—se aproxima hasta donde es posible, a ser un producto totalmente sintético. Durante un período de más de dos años, muchos de los principales fabricantes de productos farmacéuticos han venido usando con entera satisfacción grandes cantidades de peras de goma AMEKINE. El costo adicional es insignificante.

Gustosos le enviaremos a usted muestras de las peras de goma AMEKINE para que las someta en su laboratorio a las pruebas que desee.

PENNSYLVANIA GLASS PRODUCTS COMPANY, 418-20 No. Craig St.
PITTSBURGH, PA., E. U. A.

(No estamos afiliados a ninguna otra fábrica de productos de cristal).

Patentadas en los E.U.A., el Canadá, la Gran Bretaña y otros países.

New Perfection

PIEZAS Y CUENTAGOTAS COMPLETOS

Oil, Cedarleaf—Oil, Thyme

Oil, Cedarleaf, cs.....lb. .90 - .95
dms. .....lb. .85 - .90
Cedarwood, Southeast, cns..lb. .26 - .27
dms .....lb. .24 - .25
Celery, bots.....lb.15.00 -16.00
Chaulmoogra, USP, cns.....lb. .72½- —
Chinawood, dms.....lb. .27½- —
tanks .....lb. .26½- —
Cinnamon, Ceylon, bots.....lb. 9.75 -27.00
Citronella, Ceylon, cns.....lb. .40 - .41
dms. .....lb. .38 - .39
Java, cns, dms.....lb. .37 - .39
Clove, makers, USP, cns....lb. 1.15 - 1.20
dms. .....lb. 1.10 - 1.15

Coconut, Manila, crude, tanks, lb. .03¾- —
edible, 76°, dms. (returnable), c.l..lb. .08 - —
l.c.l. .....lb. .08¼- —
tanks .....lb. .07¾ Nom.
Cod, Newf., bbls.....gal. .65 Nom.
Codliver, med., USP., bbls..bbl.67.00 -70.00
Coriander, bots.....lb.16.25 16.75
Corn, crude, tanks, wks.....lb. .06¾ Nom.
ref'd, bbls.....lb. .09½ Nom.
Cottonseed, cooking, bbls....lb. .08 - —
salad, bbls.....lb. .08¼- —
Creosote (see C).
Croton, N. F., cns.....lb. 2.50 - 2.75
Cubeb, USP, cns.....lb. 3.00 - 3.25
Crude (see Petroleum, crude).
Cumin, bots. .....lb. 9.00 -10.00
Cypress, bots.....lb. 5.25 - 5.50
Degras (see D).
Dill seed, bots.....lb. 4.50 - 5.00
weed, bots.....lb. 5.50 - 5.75
Dip (see L).

Oil, erigeron, cns.....lb. 2.20 - 2.30
Eucalyptus cns.....lb. .65 - .67
dms. .....lb. .63 - .65
Fennel, sweet, cns.....lb. 2.00 - 2.10
Gaultheria (see Oil, wintergreen leaf).
Geranium, Algerian, rose, cns., lb.14.25 Nom.
Bourbon, cns.....lb.14.00 Nom.
Turkish (see Palmarosa).
Grapefruit, cns.....lb. 1.60 - 1.65
Grapeseed, dom., dms.....lb. .35 - .36
imported, dms.....lb. .15 - .20
Ginger, dist., bots.....lb. 4.10 - 4.25
Guaiac wood, concrete, bots..lb. 3.50 - 3.75
Haarlem, imp., bots.....gross No prices
Halibut liver, ref., dms....gal.40.00 - —
Hemlock, cns.....lb. .85 - .90
Juniper berry, USP XI, cns..lb. 9.00 Nom.
wood, tech., cns.....lb. .50 - —
Juniper tar, USP XI, cns....lb. .39 - .40
Lard, common., 1, bbls.....lb. .08¼- —
2, bbls.....lb. .08 - —
extra, bbls.....lb. .08¾- —
1, bbls.....lb. .08¼- —
winter, strained, bbls.....lb. .08¾- —
prime, burning, bbls.....lb. .09½- —
prime, ined., bbls.....lb. .09¼- —
Laurel, bots.....lb. 5.00 Nom.
Lavandin, cns., 25 lbs.....lb. 3.25 Nom.
Lavender flower, French, 50% 38-42% ester, cns..lb. 7.50 Nom.
35-38% ester, cns.....lb. 5.50 Nom.
30-32% ester, cns.....lb. 5.00 Nom.
garden, cns.....lb. .55 - .70
spike, Spanish, tech., cns..lb. 1.40 - 1.60
dms. .....lb. 1.35 - 1.50

Oil, lemon, Calif., cns.....lb. 3.25 - —
Messina, coppers, cns.....lb. 4.75 - 5.00
Terpeneless, Type 1.....lb.10.50 -16.50
Type 2.....lb. 8.35 -14.50
Lemongrass, native, cns., dms., lb. .78 - .80
Lime, dist., cns.....lb. 4.75 - 5.00
expressed, cns.....lb. 7.75 - 8.00
Terpeneless, Type 1.....lb.67.50 -78.00
Type 2.....lb.46.50 -50.00
Linalee wood, cns.....lb. 1.75 - 2.00
Linseed, raw, dms., c.l.....lb. .0950- .0970
l.c.l., 10 to 69.....lb. .0980- .1000
5 to 9.....lb. .1010- —
less than 5.....lb. .1030- —
tanks .....lb. .0880- .0900
Boiled linseed oil .004 cent over raw.
Lovage, extra fine, bots.....lb.85.00 - —
Lubricating, at refinery, ex tax California, neutrals, pale, 166-600 vis., 2½-4, tanks, gal. .07¼- .11
red, 200-900 vis., 4-6½ plus, tanks, gal..... .07¼- .11¼
Group 3, bright stocks, 100-210 D,0-25 pour, tanks, gal. .13½- .19
neutrals, 150-400 vis., 3-3½, 0-10 pour, tanks, gal. .08 - .12
200-280 vis., 3, 15-25 pour, tanks..gal. .08 - .16
Pennsylvania, bright stocks, 8 color, 140-150 vis., 10-25 pour, tanks..gal. .14 - .16
cylinder oils, 600-630 flash, tanks..gal. .09 - .12
600-650 steam ref'd, tanks..gal. .08 - .08¼

Oil, lubricating, at refinery, Penn., neutrals, 70° F., 3 color, 150 vis., 0-25 pour, tanks..gal. .19 .22¼
200 vis., 0-25 pour, tanks..gal. .21 - .24¼
Mace, dist., cns., dms.....lb. 2.35 - 2.40
Mandarin, superior, coppers..lb. 9.00 -10.00
Menhaden, crude, tanks, fut., Balto..gal. .35 Nom.
refd., alkali, dms.....lb. .0980- —
kettle-bodied, dms.....lb. .1080- —
light-pressed, dms.....lb. .0900- —
tanks .....lb. .0800- —
Mineral, white (see Oil, white mineral).
Mustard, artif., USP., bots., cns..lb. 1.50 - 1.60
dist., natural, bots.....lb. 9.50 -10.00
Neatsfoot, 20° cold test, bbls., lb. .15¼- —
extra, bbls.....lb. .08¾- —
1, bbls.....lb. .08½- —
prime, bbls.....lb. .09 - —
pure, bbls.....lb. .10¾- —
sulphonated, common, 25% moisture, dms..lb. .10½- —
Neroli, bots.....lb. 200.00- 325.00
Nutmeg, dist., cns., dms....lb. 2.35 - 2.40
Oleo, 1, bbls.....lb. .07¾- —
2, bbls.....lb. .07½- —
Oiticica, dms.....lb. .18½ - .19¼
Olibanum, bots.....lb. 5.00 - 5.25
Olive, denat., dms.....gal. 2.30 Nom.
edible, dms.....gal. 3.20 Nom.
foots, dms.....lb. .10¼ Nom.
sulphonated, 50%, (42% fat), dms., c.l..lb. .09¼- —
l.c.l. .....lb. .10¾- —
75% (63% fat), dms., c.l..lb. .12¾- —
l.c.l. .....lb. .13¼- —
80% (68% fat), dms., c.l., lb. .127 - —
l.c.l. .....lb. .137 - —
Orange, sweet, dist., cs.....lb. .90 - —
expressed, African, cns., dms., lb. 1.40 - 1.50
Calif., cns.....lb. 2.00 - —
Florida, cns.....lb. 1.25 - 1.30
Messina, USP, coppers...lb. 8.00 Nom.
West Indies, cns.....lb. 2.25 - 2.50
terpeneless .....lb.42.00 -50.00
Origanum, cns.....lb. 1.05 - 1.45
Palm, Niger, dms.....lb. .04¼ Nom.
shipment .....lb. .03¾ Nom.
softs, 12½%, bulk, shipt..lb. .02½ Nom.
Sumatra, shipt., bulk.....lb. .02¼ Nom.
Palmarosa, cns.....lb. 3.00 Nom.
Paraffin, 320° flash, 60-70 vis., tanks, G. S..gal. .05¼- —
350° flash, 70-80 vis., tanks, G. S..gal. .05½- —
80-85 vis., bbls., extra, Ind. refy..gal. .12 - —
350° flash, 100-105 vis., bbls., extra, Ind. refy..gal. .14 - —
300° flash, 100-110 vis., tanks, G. S..gal. .05¾- —
Patchouli, bots., cns.....lb. 5.50 - 6.00
Peanut, crude, dom., tanks..lb. .05¾ Nom.
refd., edible, bbls.....lb. .08½ Nom.
Pennyroyal, dom., cns.....lb. 3.00 Nom.
import, cns.....lb. 2.25 - 2.50
Peppermint, natural, cns., dms., lb. 3.65 - 3.90
redist., USP, cns., dms....lb. 3.90 - 4.15
Perilla, dms.....lb. .18 Nom.
tanks .....lb. .17¼ Nom.
Petitgrain, Paraguay, cns....lb. 1.40 - 1.50
Pimento berry, cns.....lb. 4.25 - 7.25
leaf, cns.....lb. 2.50 - 2.75
Pine, dest.-dist., straw-color, dms., dlvd., E. ports..gal. .50 - .55
steam-dist., dms.....gal. .59 - —
tanks .....gal. .54 - —
Pineneedle, Siberian, cns.....lb. 1.30 - 1.40
Putty, bbls., E. Segundo, Richmond, Cal..gal. .22¼- —
contracts .....gal. .19½- —
Whiting, Ind.....gal. .28 - —
dms., c.l., Boston, Providence, gal. .25 - —
l.c.l., same basis.....gal. .27 - —
tanks, same basis.....gal. .18 - —
Martinez, Cal.....gal. .28 - —
Rapeseed, blown, dms.....lb. .17½- —
denat., bbls.....gal. .95 Nom.
Red, dist., or saponif., dms., divd..lb. .07¼- .08¼
tanks, divd.....lb. .06¾- —
Rose, artif., bots.....oz. 1.35 - 2.25
natural, coppers.....oz. 5.50 -22.50
Rosemary, Spanish, cns.....lb. .71 - .72
dms. .....lb. .63 - .64
Rosin, 1st rectfd., dms.....gal. .40 - —
2d rectfd., dms.....gal. .42 - —
3d rectfd., dms.....gal. .46 - —
Rue, bots.....lb. 5.25 - 6.00
Sage, cns.....lb. 3.50 - 3.75
Sandalwood, E.I. USP, cns..lb. 4.95 - 5.25
Mysore, cns., case lots.....lb. 5.50 - 5.75
Sardine, crude, fut., tanks, Pac. Cst..gal. .43 Nom.
refd., alkali, dms.....lb. .0980- —
kettle-bodied, dms.....lb. .1080- —
light-pressed, dms.....lb. .0900- —
tanks .....lb. .0800- —
Sassafras, artif., cns.....lb. .75 - —
dms. .....lb. .72 - —
natural, cns., dms.....lb. 1.00 - 1.25
Savin, cns.....lb. 5.75 Nom.
Savory, cns.....lb. 3.75 Nom.
Shark liver, crude, dms..... million vitamin units. .04 - .09
Sesame, crude, coast, tanks..lb. .07¾ Nom.
Shingle stains, bbls., c.l., works, gal. .19 - —
l.c.l., works.....gal. .20 - —
tanks, works.....gal. .14 - —
Snakeroot, Canada, cns.....lb. 9.50 -10.50
Soybean, dom., crude, dms...lb. .06½- .07
tanks .....lb. .05¾- —
refd., dms.....lb. .07¾- .08½
tanks .....lb. .07 - .07¾
Spearmint, dms.....lb. 2.75 - 3.00
Sperm, bleach, 38°, dms....lb. .1120- —
45°, dms.....lb. .1050- —
natural, dms.....lb. .1000- —
Spruce, cns., dms.....lb. .80 - .85
Sweet, birch, North, cns.....lb. 2.25 - 2.65
South, cns.....lb. 1.55 - 1.70
Tall, crude, dms., c.l., works, ton.40.00 - —
l.c.l., works.....ton.45.00 -50.00
tanks, works.....ton.30.00 - —
distilled, dms., c.l., divd..lb. .05½- .07
l.c.l., divd.....lb. .06½- .08¼
tanks, divd.....lb. .05 - .06¾
refined, dms., c.l., works..lb. .04 - —
l.c.l., works.....lb. .04½- —
tanks, works.....lb. .03½- —
Tallow, acidless, bbls.....lb. .08¼- —
tanks .....lb. .07¾- —
Tansy, cns.....lb. 4.25 - 4.50
Tar, pine, com'l, dms., c.l., divd. E. cities..gal. .26 - —
E. ports, c.l.....gal. .25 - —
l.c.l. .....gal. .27 - —
tanks, divd. E. cities....gal. .20 - —
rectfd., USP, bbls., l.c.l., divd. E. ports..gal. .55 - —
Tar acid (see T).
Teaseed, crude, dms.....lb. .17½ Nom.
Tea tree (see Oil, Ti tree).
Thyme, NF, red, dms.....lb. .80 - 1.40
white, dms.....lb. .95 - 1.70

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OIL of Bergamot Artificial
OIL of Neroli Artificial
OIL of Geranium Artificial

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IONONE COMPLETE
PARA CRESOL ETHYL ETHER
PARA CRESOL METHYL ETHER
PHENYL ETHYL ALCOHOL

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GENERAL DRUG COMPANY

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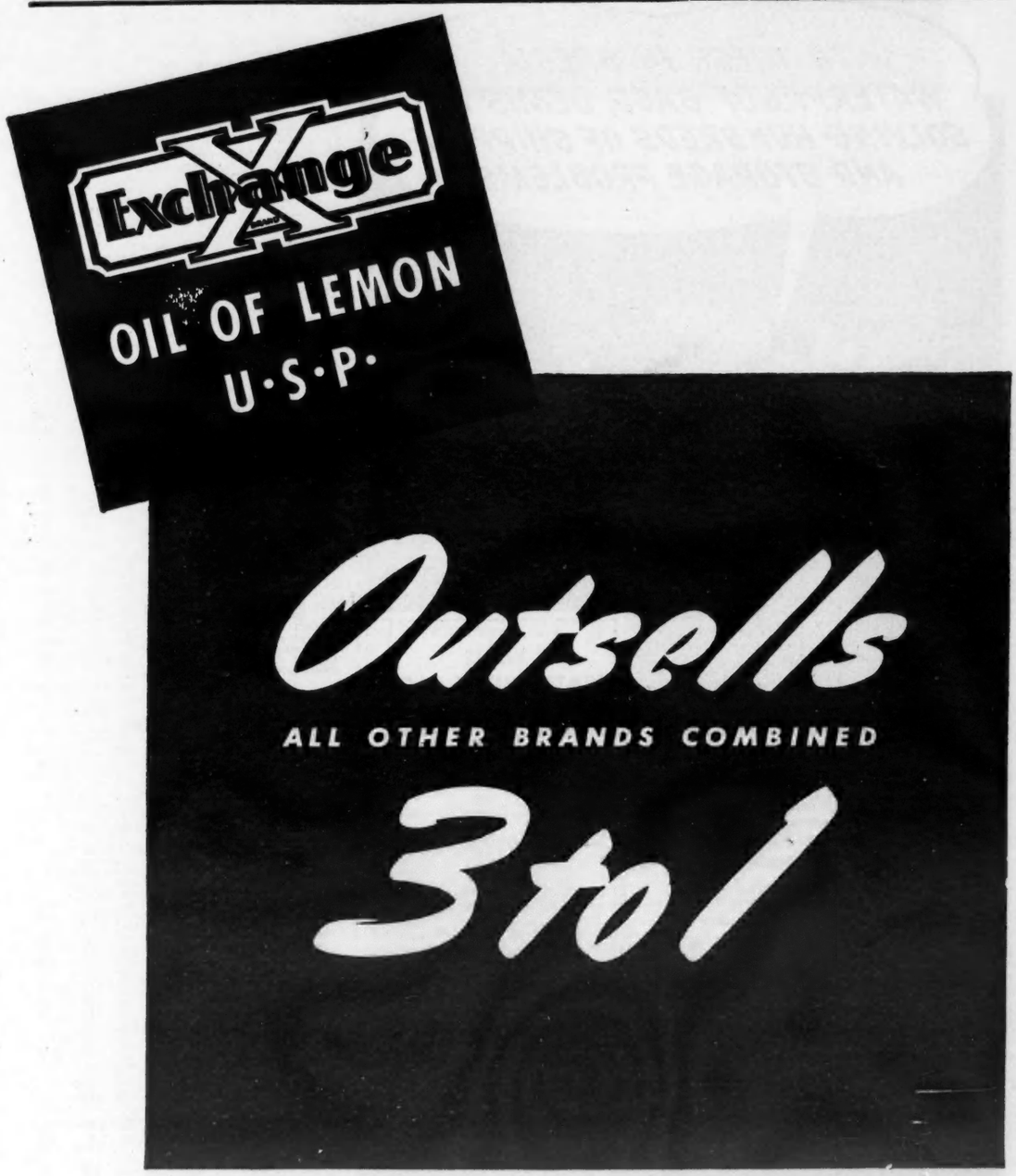
Oil, tung (see Oil, Chinawood).
Ti tree, cns. lb. 2.30 - 2.80
Turkey red (see castor, sulphonated).
Turpentine (see T).
Turtle, cns. gal. 7.00 - —
Vetiver, bots. lb. 5.25 - 9.50
Whale, ref., natural, dms. lb. .0910- —
winter, bleach, dms. lb. .0950- —
Wheat germ, cns., dms. gal. 17.50 -25.00
White, mineral, dom., tech., 50-60 vis., dms. gal. .31 - .38
65-75 vis, dms. gal. .33 - .40
80-90 vis., dms. gal. .34 - .41
80-90 vis., dms. gal. .36 - .43
U.S.P. 95-105 vis., dms. gal. .40½- .47½
125-135 vis., dms. gal. .46 - .53
140-150 vis., dms. gal. .49 - .55
175-185 vis., dms. gal. .53½- .60½
200-210 vis., dms. gal. .56½- .63½
320-330 vis., dms. gal. .64 - .71
335-345 vis., dms. gal. .65 - .72
Russian, 80-90 vis., dms. gal. No prices
145-155 vis., dms. gal. No prices
175-185 vis., dms. gal. No prices
335-345 vis., dms. gal. No prices
Wintergreen, natural, North, cns. lb. 4.35 - 5.00
South, cns. lb. 3.05 - 3.75
synth (see Methyl salicylate).
Wood (see Oil, chinawood).
Wormseed, cns. lb. 2.80 - 2.90
Wormwood, cns. lb. 4.50 - 4.75
Ylang-ylang, Bourb., bots., cns., lb. 7.00 Nom.
Manila, bots. lb. 23.00 Nom.
Olivine, aggregate, c.l., mines, ton. 7.00 -11.00
Lumps, same basis. ton. 7.00 - —
Spalls, same basis. ton. 5.00 - —
ground, 325 mesh c.l., mines, ton. 20.00 - —
200 mesh, c.l., mines. ton. 17.00 - —
100 mesh, c.l., mines. ton. 15.00 - —
20 mesh to dust. ton. 12.00 - —
Optum, USP, cns. lb. 11.50 -12.50
gran., cns. lb. 12.50 -13.50
powd., cns. lb. 12.50 -13.50
Orange, Lake, Persian, bbls. lb. .30 - .45
Mineral, Amer., bbls., 5 tons, dlvd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. of Cascade Mts. in Ore. and Wash. lb. .11¼- —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash. lb. .11¼- —
Colo., Mont., N. M., Wyo. lb. .11½- —
Other points. lb. .11 - —
smaller lots, dlvd., Ala. etc. lb. .11¾- —
Ariz., etc. lb. .12¼- —
Colo., Mont., N. M., Wyo. lb. .12 - —
Other points. lb. .11½- —
French, Tours, casks, ex dock. lb. .13½- —
kgs., ex dock. lb. .14½- —
Molybdate, bbls. lb. .31 - —
Toner, bbls. lb. .80 - —
Orangeflower petals, cs. lb. .45 - .50
Orange peel, bitter, bls. lb. .09 - .10
sweet, bls. lb. .11 - .12
Orris root, Florentine, bgs. lb. .80 Nom.
fingers, cs. lb. 1.50 Nom.
powd., bbls., bxs. lb. .85 Nom.
Verona, bls. lb. .75 Nom.
powd., bgs., cns. lb. .80 Nom.
Orthoanisidin, bbls. lb. .70 - —
Orthochloraniliin, dms. lb. .60 - .75
Orthochlorophenol, dms. lb. .32 - —
Orthocresol, dms., c.l., works. lb. .16 - —
l.c.l., same basis. lb. .16¼- —
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies. lb. .06 - —
l.c.l., same basis. lb. .07 - —
100-lb. tins, same basis. lb. .08 - —
50-lb. tins, same basis. lb. .09 - —
tanks, same basis. lb. .05½- —
Orthodichlorobenzene prices west of Rockies 1c. per lb. higher.
Orthonitroaniliin, dms. lb. .55 - —
Orthonitrochlorobenzene, dms. lb. .15 - .18
Orthonitroparachlorophenol, cns. lb. .75 - —
Orthonitrotoluene, dms. lb. .09 - —
Orthophenetidin, dms. lb. .80 - —
Orthotoluidin, dms. lb. .19 - —
Osage orange extract, cryst., bbls. lb. .21 - —
liquid, 42°, bbls. lb. .09 - —
51°, bbls. lb. .10 - —
Oxyquinolin sulphate, cns., 100-lbs., works. lb. 3.50 - —
bots., cns., 1-50 lbs. lb. 3.65 - 4.00
Orthotoluene hydrochloride, dms. lb. .22 - —
Sulphonate, kgs. lb. 2.00 - 2.05

P

Papain, powd., cs. lb. 1.40 - 1.45
Paprika, Algerian, bgs. lb. .33 - .34
Bulgarian, bgs. lb. .29½- .30
Portugese, extra fancy, bgs., lb. .31 - .31½
medium, bgs. lb. .27 - .28
Spanish, extra fancy, cs. lb. .38 - .39
medium, cs. lb. .36 - .37
Parachlorophenol, dms. lb. .32 - —
Paracymene, refd., dms. gal. .75 - 1.25
Paradichlorobenzene, dms., c.l. lb. .11 - .12
l.c.l. lb. .12½- .13¼
Paraffin, crude, scale, white, 122-124 A.m.p., bgs., c.l., Okla., refy. lb. .0250- .0265
bbls., c.l., N.Y. lb. .0250- .0265
124-126 A.m.p., bgs., c.l., Okla., refy. lb. .0250- .0270
bbls., c.l., N.Y. lb. .0250- .0270
yellow, 124-126 A.m.p., bbls., c.l., N.Y. lb. .0250- —
fully refd., bgs., 123-125 A.m.p., bgs., c.l. lb. .0570- —
123-130 A.m.p., bgs., or loose, c.l. lb. .0570- —
131-133 A.m.p., bgs., or loose, c.l. lb. .0595- —
133-135 A.m.p., bgs., or loose, c.l. lb. .0625- —
135-137 A.m.p., bgs., or loose, c.l. lb. .0650- —
138-140 A.m.p., bgs., or loose, c.l. lb. .0725- —
143-145 A.m.p., bgs., or loose, c.l. lb. .0820- —
151-153 A.m.p., bgs., or loose, c.l. lb. .13 Nom.
Refined paraffin prices in cases are ½c. lb. higher than bags price; solid in tankcars is 5c. lower.
match, A.m.p. up to and incl. 110-112 bbls., c.l. lb. .03½- —
semi-refd., solid, 122-124 A.m.p., bgs. lb. .03 - —
Paraformaldehyde, dms., 1,000 lbs. or more, shipments, f.o.b. Perth Amboy, Philadelphia, or N.Y.C. lb. .23 - —
100 to 900 lbs. shipments, same basis. lb. .24 - —
Paraldehyde, tech., 98%, 55 and 110-gal. dms., c.l., works. lb. .10 - —
l.c.l., works. lb. .11¼- —
5 and 10-gal. dms., works. lb. .15 - —
USP, cs., cbys. lb. .37 - .45
Paranitrophenol, kgs. lb. .35 - —
Paranisidine, dms. lb. .75 - —
Paranitroaniliin, kgs., works. lb. .45 - —
Paranitrochlorobenzene, kgs. lb. .15 - —
Paranitrotoluene, kgs. lb. .30 - —
Paraphenylenediamine, bbls. lb. 1.25 - 1.30
Paratoluenesulphonamide, bbls. lb. .70 - —
Paratoluidin, bbls. lb. .48 - —
Pareira brava root, bls. lb. .20 - .21
Paris green, dealer, dms., bbls., c.l., f.o.b. works, frt. alld. lb. .23 - .25
l.c.l., same basis. lb. .24 - .26
Passion flower, herb, bls. lb. .06 - .07
Patchouli leaves, bls. lb. .28 - .30
Pellitory root, bls. lb. .30 - .32
Pennyroyal leaves, bls. lb. .15 - .16
Pentane, norm., 28-38°, dms., c.l., G.3. gal. .11½- —
l.c.l., G.3. gal. .16 - —
tanks, G.3. gal. .07 - .03½
laboratory grade, dms., c.l., G.3. gal. .14 - —
l.c.l., G.3. gal. .25 - —
Pepper, black, Alleppy, bags. lb. .07¾ Nom.
Lampong, bags. lb. .0420- .0425
Tellicherry, bags. lb. .07½ Nom.
White, Java, Muntok, bags. lb. .08½- .09
Muntok, small berry, bgs. lb. .08¾- .08¾
Red, chillies, Japan, Hontaka, lb. .20 - .21
Mombassa, bgs. lb. .24½- .25
Peppermint leaves, dom., bls. lb. .60 - .65
imports, bls. lb. .00 Nom.
Perchlorethylene, dms., c.l., works, frt. alld., zone 1. lb. .08 - —
l.c.l., same basis. lb. .08½- —
Zone 2, dms., c.l., works, frt. alld. lb. .08½- —
l.c.l., same basis. lb. .09 - —
Zone 3, dms., c.l., works, frt. alld. lb. .09 - —
l.c.l., same basis. lb. .09½- —
Zone 4, dms., c.l., f.o.b. stock points. lb. .09 - —
l.c.l., same basis. lb. .09½- —
All prices on perchlorethylene are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Zone 1 includes the following states:—Conn., Md., N. Y., Va., Ky., Me., N. J., Vt., W. Va., Mo., N. H., Tenn., Ind., Ia., Pa., R. I., Ill., Mich., Minn., Wis., Del., Mass., N. C., O., Omaha, Neb.; Kansas City, Kansas. Zone 2 includes Ala., Kan., except Kansas City; N. D., Ga., Neb., except Omaha; S. D., Miss., Ark., S. C., La., Okla., and Fla. Zone 3 includes Colo., N. M., Wyo., Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev., Wash., Utah and Cal.
Peru, balsam, dms. lb. .65 - .67
Petrolatum, amber, dms., c.l. lb. .02¾- —
c.l. lb. .03¾- —
amber, extra, dms. lb. .03 - —
l.c.l. lb. .04 - —
white, cream, dms., c.l. lb. .04 - —
l.c.l. lb. .05½- —
lily, dms., c.l. lb. .04¾- —
l.c.l. lb. .06¼- —
snow, dms., c.l. lb. .05½- —
l.c.l. lb. .07½- —
Petroleum, crude, bulk, at wells:—
California bbl. .60 - 1.71
Canada bbl. 1.70 - 2.10

Oil, Tung—Petroleum Ether

Petroleum, crude, bulk, at wells,
Central West:—
Illinois bbl. 1.00 - 1.15
Lima bbl. .90 - —
Michigan bbl. .92 - 1.23
Princeton bbl. 1.00 - —
East Texas bbl. 1.10 - —
Gulf Coast bbl. .86 - 1.23
Kentucky, Tennessee bbl. .90 - 1.20
Louisiana, Arkansas bbl. .55 - 1.25
Mexico bbl. No prices
Midcontinent:—
North Texas bbl. .71 - 1.03
Oklahoma-Kansas bbl. .58 - 1.10
Pennsylvania, Ohio, West Virginia:—
Bradford, Allegany bbl. 2.30 - —
Corning bbl. 1.12 - —
N. Y. Transit lines bbl. 2.30 - —
Eureka lines bbl. 1.89 - —
S. W. Penn lines bbl. 1.95 - —
Lower district in National Transit lines bbl. 2.18 - 2.23
Rocky Mountains bbl. .35 - 1.10
South Central and Southwestern Texas bbl. .86 - 1.29
Texas Panhandle bbl. .67 - .96
West Texas bbl. .53 - .95
Ether, normal, tanks, G.3 gal. .09¾- —
dms., c.l., dlvd. gal. .24 - —
l.c.l., 5 or more, dlvd. gal. .29 - —
1-5, dlvd. gal. .38 - —
laboratory grade, dms., c.l., G.3. gal. .14½- —
l.c.l., G.3. gal. .25½- —
10-gal. lots, G.3. gal. .50½- —



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Copr., 1940, California Fruit Growers Exchange, Products Department

Petroleum—Purple Lake

Petroleum, lacquer, diluent, at refinery:—
- California, 100 l.b.h., 200 e.p., tanks, dlvd., Los Angeles..gal. .11 - —
- San Francisco..gal. .11½ - —
- Willbridge, Ore., Fort Wells, Wash..gal. .12 - —
- East Coast, tanks.....gal. .09½- .10
- Group 3, toluol type, tanks, gal. .07⅝- —
- benzol type, tanks.....gal. .07⅞- —

Mineral spirits, at refinery:—
- California (f.o.b. San Francisco), 160-232 b.r., tanks, gal. .10½- —
- 198-290 b.r., tanks....gal. .10½- —
- 246-397 b.r., tanks....gal. .10¾- —
- 312-408 b.r., tanks....gal. .09 - —
- 325-456 b.r., tanks....gal. .09 - —
- East Coast, 43-47, tanks.gal. .0830- .09½
- 47-49, tanks.....gal. .10½- —
- Group 3, tanks.....gal. .05⅞- —

tankwagon, tax included:—
- Albany .....gal. .12½- —
- Baltimore (100 gals.)..gal. .14 - —
- 25-99 gals.....gal. .16 - —
- Boston .....gal. .13½- —
- Bound Brook, North Amboy, N. J..gal. .13½- —
- Bridgeport, Conn.....gal. .11½- —

Petroleum, mineral spirits, tankwagon, Buffalo .....gal. .15½- —
- Camden, N. J.....gal. .10 - .11½
- Chicago .....gal. .1670- —
- Decatur .....gal. .1810- —
- Des Moines.....gal. .1790- —
- Evansville, Ind.....gal. .1430-.1520
- Milwaukee .....gal. .1930- —
- Minneapolis-St. Paul..gal. .19¼- —
- Newark .....gal. .09½- —

tankwagon, tax included:—
- New York (200 gals)..gal. .09¼- —
- Omaha .....gal. .12⅜- —
- Pittsburgh .....gal. .11⅝- .13⅛
- Providence .....gal. .12 - —
- Rochester .....gal. .12⅜- —
- St. Louis.....gal. .1470- —
- Syracuse .....gal. .10½- —
- Trenton .....gal. .10¾- —
- Wilmington, Del.....gal. .12½- —

Naphtha, cleaners', at refinery:—
- California (f.o.b. San Francisco), tanks..gal. .13 - —
- East Coast, tanks.....gal. .09 - .10½
- Group 3, tanks.....gal. .06⅝- .07

tankwagon, Boston, ex tax, gal. .13¼- —
- Bridgeport .....gal. .13½- —
- Chicago, inc. 4c. tax...gal. .18 - —
- Decatur, inc. 4c. tax...gal. .1910- —
- Des Moines, inc. 4c. tax, gal. .1890- —
- Evansville, inc. ex tax.gal. .15 - .16
- Milwaukee, inc. 5c. tax.gal. .2030- —

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Petroleum, naphtha, Minneapolis-St. Paul, inc. 5c. tax..gal. .20½- —
- Newark, ex tax.....gal. .10½- —
- New York, ex tax.....gal. .10¾- —
- Omaha, ex tax.....gal. .1490-.1590
- Oklahoma City, ex tax.gal. .16½- —
- Philadelphia, ex tax...gal. .12 - —
- St. Louis, inc. 1c. tax.gal. .15½- —
- Syracuse, 150 gals.....gal. .14½- —
- smaller lots, galv. drums, gal. .10 - —
- milk cans.....gal. .21 - —

high-solvency, aromatic, No. 1, over 70% arom., tanks, f.o.b. Bayway..gal. .21 - —
- 2, over 90% arom., same basis..gal. .21 - —
- 3, same basis.....gal. .22 - —
- 8, tanks, f.o.b. Paulsboro, N. J..gal. .16¼- —
- 30, same basis.....gal. .17½- —
- 40, same basis.....gal. .17⅝- —

V. M. & P., at refinery:—
- California, 46.5, 254 l.b.p., 380 e.p., tanks, f.o.b. El Segundo..gal. .11 - —
- Richmond .....gal. .11½- —
- Willbridge, Ore., Ft. Wells, Wash..gal. .12 - —
- 54-57, 190 l.b.p., 310 e.p., tanks, dlvd. Los Angeles, gal. .10 - —
- San Francisco....gal. .10½- —
- Portland, Seattle..gal. .11 - —
- East Coast, tanks.....gal. .09 - .09½
- Group 3, tanks.....gal. .06⅝- .07

tankwagon, Boston, ex tax, gal. .14½- —
- Chicago, inc. 4c. tax...gal. .17 - —
- Des Moines, inc. 4c. tax.gal. .1880- —
- Decatur, inc. 4c. tax...gal. .1910- —
- Evansville, Ind., ex tax, gal. .1520-.1620
- Milwaukee, inc. 5c. tax.gal. .2030- —
- Minneapolis-St. Paul, inc. 5c. tax..gal. .20 - —
- Newark, ex tax.....gal. .11½- —
- New York, ex tax.....gal. .10¾- —
- Omaha, ex tax.....gal. .1490-.1590
- Philadelphia, ex tax...gal. .13 - —
- St. Louis, inc. 1c. tax..gal. .1570- —

Solvent, rubber at refinery, California (f.o.b. San Francisco), tanks..gal. .24 - —
- East Coast, tanks.....gal. .09½- —
- Group 3, light, 120 l.b.p., 250 ep., tanks..gal. .06⅝- .07
- standard, 180 l.b.p., 288 e.p., tanks..gal. .06⅝- .07

Stoddard (CS 8-83), at refinery:—
- California (f.o.b. San Francisco), tanks..gal. .11 - —
- East Coast, tanks.....gal. .0830- .09½
- Group 3, tanks.....gal. .06⅞- .06½

tankwagon, Boston, ex tax, gal. .14 - —
- Chicago, inc. 4c. tax..gal. .1640- —
- Decatur, inc. 4c. tax..gal. .1860- —
- Des Moines, inc. 4c. tax.gal. .1840- —
- Evansville, Ind., ex tax.gal. .14 - .15
- Milwaukee, inc. 5c. tax.gal. .1980- —
- Minneapolis-St. Paul, inc. 5c. tax..gal. .1820- —
- Newark, ex tax.....gal. .09½- —
- New Orleans, ex tax..gal. .11 - —
- New York, ex tax.....gal. .09½- —
- Omaha .....gal. .1860-.1450
- Philadelphia, ex tax...gal. .13 - —
- St. Louis, inc. 1c. tax..gal. .1340- —
- Tulsa, ex tax.....gal. .10½- .11½

Phenobarbital, 5-lb. bots.....lb. 3.95 - —
- bots. or cns., 100 lbs., spot or contract..lb. 3.60 - —
- 25-lb. cns.....lb. 3.85 - —

Phenol, USP, dms., c.l., works, frt. equald..lb. .12 - —
- l.c.l., same basis.....lb. .12¾- —
- under 1,000 lbs.....lb. .13¾- —
- tanks, works.....lb. .11 - —

Phenolphthalein, USP, bbls., dms., 2,000-lb. lots..lb. .85 - —
- bbls., dms., kegs., 100-250 lbs., lb. .87 - .89
- yellow, fib. dms., 2,000-lb. lots, lb. .80 - —
- 100-lb. fib. dms.....lb. .82 - —
- 25-lb. dms.....lb. .87 - —
- 50-lb. kgs.....lb. .84 - —

Phenyl chloride, dms.....lb. .17 - —
Phenylacetaldehyde, bots.....lb. 2.10 - 2.50
Dimethylacetate, cns.....lb. 14.50 - 15.00
Phenyl ethyl acetate, cns.....lb. 2.90 - 3.00
Phenylethylphenyl acetate, bots., lb. 8.00 - 15.00
Phenylhydrazine, base, CP, bots. lb. 4.00 - —
- hydrochloride, CP, bots., works, lb. 4.00 - —
- commercial, kgs., works....lb. 1.50 - —
- pure, bbls., works.....lb. 2.25 - —

Phlorogiucinol, CP, tins, wks..lb. 20.00 - 22.00
- tech., tins, works.....lb. 15.00 - 16.50

Phosphate rock, Fla., high-grade, hard, 77% basis, 76% min., bulk, mines..long ton. 4.35 - —
- land pbble, 68% min., bulk, mines..long ton. 1.90 - —
- 70% min., bulk, mines..... long ton. 2.15 - —
- 72% min., bulk, mines..... long ton. 2.40 - —
- 75% basis, 74% min., bulk, mines..long ton. 2.90 - —
- Tenn., 72% bulk, mines..... long ton. 4.50 - —
- 75% bulk, mines..long ton. 5.50 - —

Phosphorus, red, cs.....lb. .40 - .44
- yellow, dms.....lb. .18 - .20
- cases .....lb. .28 - .25

Oxychloride, cyls.....lb. .15 - .18
Pentoxide, dms., c.l., works..lb. .11 - .12
- l.c.l., dms., works.....lb. .13 - .14

Sesquisulphide, cs.....lb. .38 - .42
Trichloride, cyls.....lb. .15 - .16
Phthalamide, bbls., works, tons.lb. .35 - —
- single bbls., works.....lb. .40 - —
- kgs., works.....lb. .45 - .50

Phthalic anhydride, bbls., c.l., works, frt. alld. E. of Miss. R..lb. .14½- —
- l.c.l., same basis.....lb. .15½- —

Pichi leaves, bgs.....lb. .10 - .11
Pilocarpine hydrochloride, bots., vls..oz. 3.75 - 4.00
- Nitrate, bots., vls.....oz. 3.75 - 4.00

Pimento, Jamaican, bgs.....lb. .25½- .25¾
- Mexican, bgs.....lb. .10¼- .10¾

Pinkroot, bls.....lb. .40 - .41
Pitch, burgundy (see B).
Coaltar, 160° m.p., bbls., c.l., works..ton. 19.00 - —
- l.c.l. .....ton. 22.00 - —

Hardwood, 1-time dms., c.l., dlvd. Akron..ton. 23.75 - 24.00
- Linseed, dms.....lb. .05 - .05½

Petroleum (see Asphaltum, Mexican, Texas).
Pine, bbls.....bbl. 6.00 - 6.50
Plaster of Paris (see Gypsum).
Pleurisy root, Southern, bls....lb. .12 - .18
Podophyllin, dms., dlvd. E. of Miss..lb. 4.50 - 4.70
Poke root, bls.....lb. .07 - .07¼
Pomegranate bark, bgs.....lb. .49 - .50
- Root bark, bgs.....lb. .60 - .65

Poppy flowers, red, bls.....lb. .70 - .75
- Seed, Dutch, bgs.....lb. .36 - .38
- Hungarian, bgs.....lb. .29½- .30
- Roumanian, bgs.....lb. .28½- .29
- Turkish, bgs.....lb. .31 - .32

Potash abietate.....lb. .26 - —
- Acetate, tech., bbls., dlvd....lb. .26 - —
- kgs., dlvd.....lb. .28 - —
- USP, bbls., 250 lbs.....lb. .28 - —
- kgs., 100 lbs.....lb. .30 - —
- cns., 25 lbs.....lb. .31 - .44

Arsenite, USP, solut., cbys., 100 lbs..lb. .11 - —
- demj., 50 lbs.....lb. .12 - —

Bicarbonate, USP, cryst., bbls., 300 lbs..lb. .17 - —
- kgs., 100 lbs.....lb. .19 - —
- gran., bbls., 250 lbs.....lb. .17 - —
- kgs., 100 lbs.....lb. .19 - —

Bichromate, spot, c.l., works.lb. .08½- —
- 6 casks or 10 bbls., or over, works..lb. .09 - —
- 5 casks or 9 bbls., or less, works..lb. .09¼- —

Bromide, USP, gran., bbls., 500 lbs..lb. .27 - —
- fib. dms., 100 lbs.....lb. .28 - —

Carbonate, calc., dms., c.l., works..lb. .06½- —
- l.c.l., same basis.....lb. .06¾- —

hydrated, 83-85%, bbls., c.l., works..lb. .05½- —
- l.c.l., same basis.....lb. .05¾- —

liquid, dms., c.l., works, frt. alld..lb. .03 - —
- l.c.l., dms., same basis.lb. .03½- —
- tanks, same basis.....lb. .02¾- —

USP, gran., bbls., 325 lbs..lb. .14 - —
- powd., bbls., 325 lbs.....lb. .19 - —
- kgs., 100 lbs.....lb. .21 - —

Caustic, flake, 88-92%, dom., c.l., works..lb. .07 - —
- import, dms.....lb. No prices
- liquid, 45% basis, dms.....lb. .03½- .03¾
- tanks .....lb. .02¾- —
- solid, 88-92%, dom., dms., c.l., works..lb. .06¼- —
- l.c.l. .....lb. .06½- .06¾
- import, dms.....lb. No prices

Chlorate, cryst., kgs.....lb. .11 Nom.
- pwd., kgs.....lb. .09½- .10

Chloride, tech., 96%, cryst., bgs., kgs..lb. .04 Nom.
Chromate, kgs.....lb. .2[illegible]
Citrate, USP, gran., bbls., 250 lbs..lb. .33½- —
- kgs., 100 lbs.....lb. .34½- —
- cns., 50 lbs.....lb. .35½- —
- cns., 25 lbs.....lb. .37½- —

Cyanide, dom., dms., works..lb. .55 - —
Cyanide, gold, 11% gold, bots., works..oz. 14.20 - 14.45
Glycerophosphate, 75% sol., dms., 1,000-lb. lots..lb. 1.00 - —
- 100-lb. lots.....lb. 1.10 - —
- 50-lb. lots, cbys., or cns., lb. 1.15 - —
- 25-lb. lots, cns.....lb. 1.25 - —

Guaiacolsulphonate, fib., dms., 100-lb. lots..lb. 1.60 - 1.65
- cns., 25 lbs.....lb. 1.75 - —

Hydroxide, USP, sticks, cns., 100 lbs. to 1,000 lbs..lb. .32 - .34
Hypophosphite, cns., 100 lbs..lb. .72 - —
- 25 to 50 lbs.....lb. .75 - —

Iodate, bots., 5 lbs.....lb. 3.55 - —
- cns., 25 lbs.....lb. 3.46 - —

Iodide, bbls., 250 lbs.....lb. 1.20 - —
- bots., or cns.....lb. 1.29 - 1.55
- dms. .....lb. 1.20 - 1.26

Kainit, 20%, K_2O, bulk, ex vessel, Atlantic or Gulf ports.. ton. No prices

Manure salt, dom., min., 30%, K_2O, bulk, ex vessels, ports. unit-ton. .60 - —
- import, 30%, K_2O, bulk, ex-vessel, Atlantic or Gulf ports..ton. No prices

Domestic manure salt prices, basis f.o.b., Carlsbad, N. M., are 11.2c. per unit of K_2O less than the ex vessel price named above. Prices in bags are $2 per ton higher than bulk prices.

Potash, metabisulphite, kgs...lb. .19 Nom.
- Muriate, dom., min., 50% or 62%, K_2O, bulk, ex-vessel, ports..unit-ton. .53½- —
- import, min., 50% or 60% K_2O, bulk, ex-vessel, Atlantic or Gulf port..unit-ton. No prices

Domestic muriate of potash prices, basis f.o.b. Carlsbad, N. M., are 11.2c. per unit of K_2O less than the ex-vessel price named above. Prices, basis f.o.b. Trona, Cal., are 8c. per unit of K_2O less than the ex-vessel price. Prices in bags are $2 per ton higher than the bulk price.

Oxalate, pure, cryst., kgs....lb. .30 - .31
- tech., bbls.....lb. .25 - .26

Nitrate, crude, bgs., c.i.f. ports. ton. No prices
Perchlorate, kgs., works.....lb. .09¼- .11
Permanganate, tech., dms...lb. .19¼- .19¾
- U.S.P., dms.....lb. .20 - 20¼

Prussiate, red, bbls.....lb. No prices
- Yellow, bbls.....lb. .16 - .18
- Reinoleate, tech., bbls.....lb. .13 - —
- Silicate alkaline, lumps, bgs..lb. .07 - —

Sulphate, NF, cryst., 400 lbs., bbls..lb. .18 Nom.
- 100-lb. kgs.....lb. .20 - —
- powd., 350 lbs., bbls....lb. .19 Nom.
- 100-lb. kgs.....lb. .21 - —
- tech., dom., bgs., basis 90% K_2SO_4, ex-vessel, ports. ton. 36.25 - —
- bulk, same basis.....ton. 34.25 - —
- imp., min., 90%, bgs., ex-vessel, Atl. or Gulf ports. ton. No prices

Xanthate, dms., c.l.....lb. .18 - —

Potash-magnesia, sulphate, dom., bgs., 40%, K_2SO_4, ex-vessel, ports..ton. 27.00 - —
- bulk, same basis.....ton. 25.00 - —

Potash-soda ferricyanide, dms., works..lb. .36 - .39

Potash titanium oxalate, 350-lb. bbls..lb. .40 - —
- 100-lb. dms.....lb. .40 - —

Prickly ash bark, bls.....lb. .12 - .13
Berries, bgs.....lb. .28 - .30
Prince's pine herb, bls.....lb. .22 - .23
Propane, tanks, Group 3.....gal. .03¾- .04
Psyllium seed (see Fleaseed).
Pulsatilla, bls.....lb. .85 - .90
Pumice stone, Italian, Amer.-grd., 4F, 3F, 2F, 1½F., and coarser, bbls., 3 or over, works..lb. No prices
- less than 3, works.....lb. No prices
- F and I, bbls., 3 or over, works..lb. No prices
- less than 3, works.....lb. No prices
- O, O—½, O—¾, and ½, bbls., 3 or over, works..lb. No prices
- less than 3, works.....lb. No prices

Ital.-grd., bgs., c.l., ship., ex dock, N.Y..ton. No prices
- l.c.l., 5-29 tons, ex whse., ton. No prices
- 1,000-10,000 lbs., ex whse. ton. No prices
- 2 bgs. to 1,000 lbs., ex whse..ton. No prices
- single bgs., ex whse..ton. No prices

Pumpkin seed, bgs.....lb. .10 - .11
Purple lake (see Red).

Putty, com'l, dms.....100 lbs. 3.15 - —
linseed oil, raw, dms....100 lbs. 5.00 - —
refined, dm.....100 lbs. 5.50 - —
standard, dms.....100 lbs. 4.20 - —
Pyrethrum concentrate, liq. (20 to 1), basis 2 grams pyrethrins per 100 cc., dms., dlvd..gal. 4.75 - 4.95
(30 to 1-, 3 grams pyrethins per 100 cc., dms., dlvd..gal. 7.20 - —
Pyrethrum flowers, coarse, grnd. (g.f.p.), 9% pyrethrins, frt. alld., bbls..lb. .23..- .25
fine powd., 9% pyrethrins, frt. alld., bbls..lb. .25 - .26
Pyridin, denaturing, dms....gal. 1.71 - —
refd., 2°, dms.....lb. .48 - —
Pyrites Spanish, bulk, c.l.f. Atl. ports..unit-ton. No prices
Pyrocatechin, CP, cryst., works, fib. dms., tins..lb. 2.15 - 2.40
resublimed, fib. dms., tins..lb. 4.00 - —
Pyrophylite, standard, 200 mesh, c.l., mines..ton. 9.00 - —
325 mesh, same basis.....ton.12.00 - —
No. 3, 200 mesh, c.l., mines.ton. 7.50 - —
325 mesh, same basis.....ton.12.00 - —
Pyroxylin scrap, amber, cs., works..lb. .12 - —
black, cs., works.....lb. .10 - —
china white, ivory, cs., works, lb. .13 - —
dense, white, cs., works....lb. .10 - —
gray, cs., works.....lb. .08 - —
mixed, mottles, opaque, cs., works..lb. .04 - —
translucent pastels, cs., works..lb. .10 - —
transparent, cs., works...lb. .20 - —
colors, cs., works.....lb. .12 - —
shavings, amber, cs., works, lb. .16 - —
colors, mixed, cs., works..lb. .10 - —
white, cs., works.....lb. .15 - —

Q

Quassia chips, bls.....lb. .05 - .06
Quebracho extract, liquid, 25% tan, bbls., works..lb. .04½- —
tanks, works.....lb. .03¾- —
solid, 63%, bgs., c.l., ex dock, plus duty..lb. .04¾- —
clarified, 64%, bgs., c.l., same basis..lb. .05¼- —
Queen of the meadow leaves, bgs..lb. .07½- .08
Root, bgs.....lb. .10 - .11
Quercitron, extract, liquid, 50°, bbls..lb. .08½- .09½
solid, dms.....lb. .11 - .16½
Quicksilver, dom., flasks (76 lbs. net), dlvd., N.Y...flask.167.00 -169.00
European, flasks (76 lbs. net), c.i.f., N. Y., incl. war risk insurance..flask.250.00 - —
ex store.....flask.252.00 - —
Quince seed, bgs.....lb. 1.10 - 1.15
Quinidine, N.F.V., cryst., cns.oz. 1.06 - —
powd., precip., cns.....oz. 1.01 - —
Sulphate, cns.....oz. .71 - —
Subject to surcharge of 7c. per oz.; see note under Quinine.
Quinine, 100 ozs., cns.....oz. .84 - —
Acetate, cans.....oz. 1.05 - —
Arsenate, cns.....oz. 1.05 - —
Arsenite, cns.....oz. 1.07 - —
Bisulphate, cns.....oz. .60 - —
Citrate, cns.....oz. .18 - —
Dihydrobromide, bots.....oz. .82 - —
Dihydrochloride, bots.....oz. .82 - —
Ethylcarbonate, cns.....oz. .85 - —
Ferrocyanide, cns.....oz. 1.07 - —
Formate, cns.....oz. 1.00 - —
Hydrochlorosulphate, cns.....oz. .81 - —
Glycerophosphate, cns.....oz. 1.20 - —
Hydrochloride, cns.....oz. .76 - —
Hydriodide, cns.....oz. 1.05 - —
Hypophosphite, cns.....oz. 1.07 - —
Phosphate, cns.....oz. .90 - —
Salicylate, cns.....oz. .79 - —
Sulphate, USP, XI, cns.....oz. .67 - —
Sulphocarbonate, cns.....oz. 1.05 - —
Tannate, cns.....oz. .63 - —
Tartrate, cns.....oz. 1.03 - —
Valerate, cns.....oz. .99 - —
Quinine buyers must pay a surcharge of 7c. per oz. to cover present war risk insurance, ocean freight rates, and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.
Quinine-urea hydrochloride, cns.oz. .81 - —
Subject to surcharge of 7c. per oz.; see note under Quinine.

R

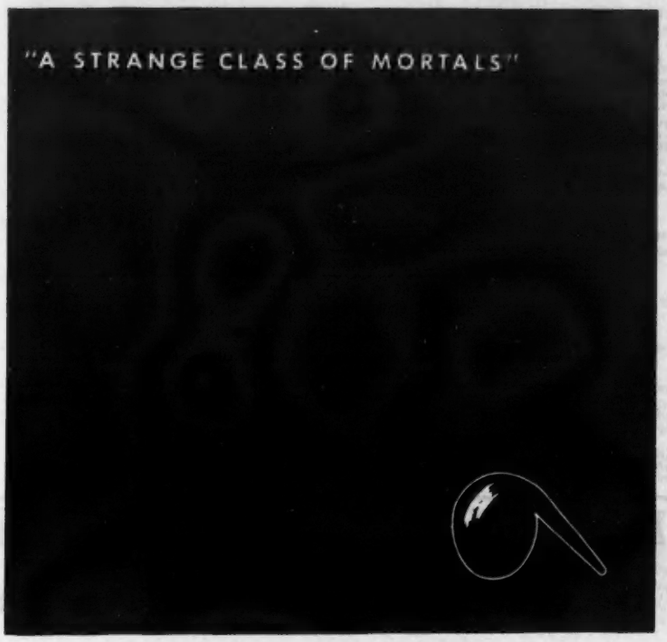
t, salt, dry, bbls.....lb. .55 - —
paste, dms.....lb. .52 - —
Rapeseed, Argentine, bgs.....lb. .06 - .06¼
Dutch, bgs.....lb. No stocks
Indian, small, recleaned, bgs.lb. .06½- .07
medium, recleaned, bags...lb. .07½- .08
Japanese, bgs.....lb. No stocks
Raspberries, dried, bls.....lb. .60 - .65
Red, alizarin lake, bbls., dlvd. N. of Tenn., and N. C. E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.10 - 1.90
Red, Alizarin lake prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Cadmium, lithopone, deep shade, bbls., ton lots, works, frt. a/d..lb. .90 - —
smaller lots, same basis, lb. .95 - —
kgs., ton lots, same basis, lb. .95 - —
smaller lots, same basis, lb. 1.00 - —
light shade, bbls., ton lots, same basis..lb. .75 - —
smaller lots, same basis, lb. .80 - —
kgs., ton lots, same basis, lb. .80 - —
smaller lots, same basis, lb. .85 - —
light-medium shade, bbls., ton lots, same basis..lb. .80 - —
smaller lots, same basis, lb. .85 - —
kgs., ton lots, same basis, lb. .85 - —
smaller lots, same basis, lb. .90 - —

Putty—Sage, Spanish

Red, cadmium, lithopone, maroon shades, bbls., ton lots, same basis..lb. 1.00 - —
smaller lots, same basis, lb. 1.05 - —
kgs., ton lots, same basis, lb. 1.05 - —
smaller lots, same basis, lb. 1.10 - —
medium shade, bbls., ton lots, same basis..lb. .85 - —
smaller lots, same basis, lb. .90 - —
kgs., ton lots, same basis, lb. .90 - —
smaller lots, same basis, lb. .95 - —
Selenide, bbls., light, works.lb. 2.20 - —
maroon, works.....lb. 2.70 - —
Carmine, 40, dms., 100 lbs...lb. 4.50 - —
50 lbs.....lb. 4.60 - —
cns., 5 lbs.....lb. 4.75 - —
1 lb.....lb. 4.85 - —
Crocus martis (see Red, purple oxide).
Eosin toner, bbls.....lb. 1.25 - —
Fire, toner, bbls.....lb. .85 - —
Indian, pure, bbls., f.o.b. Bethlehem, Easton, E. St. Louis, N. Y..lb. .08¾- —
80%-85%, bbls., same basis.lb. .07¼- —
Iron oxide (see Red oxide).
Lacquer maroon, bbls., same basis..lb. 1.25 - —
Lake C toner, bbls., same basis, alizarin, lake, contracts..lb. .90 - —
open order.....lb. .90 - —
Lithol toner, bbls., same basis alizarin, lake, contracts..lb. .55 - —
open order.....lb. .60 - —
Rose lake, bbls.....lb. .20 - .23
Pink, bbls.....lb. .15 - .20
Lithol-rubine toner, bbls., same basis, alizarin lake, contracts..lb. 1.10 - —
Maroon lake, 25% kgs., same basis, alizarin lake, contracts..lb. .40 - —
Oxide (see Red), purple oxide).
Mercury oxide, tech., dom., bbls. lb. 2.81 - —
Metallic, bbls., Pa., works...lb. .02 - —
Orange, Persian (see O).
Oxide, pure, bbls., c.l., works, lb. .08½- —
l.c.l., works.....lb. .09¼- —
reduced, 85% copperas oxide, bbls., l.c.l., f.o.b. Bethlehem, Easton, E. St. Louis, Copley, Ohio..lb. .08¼- —
85% copperas oxide, bbls., same basis..lb. .07¾- —
Para, toner, concent., kegs, same basis, alizarin lake, contracts..lb. .70 - —
open order.....lb. .75 - —
Persian, Gulf, oxide, bbls., l.c.l., f.o.b. Bethlehem, Easton, N.Y..lb. .05 - —
ex whse., Chicago, St. Louis..lb. .05¾- —
San Fran., Los Ang., Portland, Seattle..lb. .05¾- —
Phloxin toner (see Red, Eosin toner).
Phosphotungstic rhodamine Y, kgs..lb. 3.90 - —
Purple lakes, kgs.....lb. .60 - 1.00
Oxide, bbls., f.o.b. Bethlehem, Easton, E. St. Louis..lb. .03 - —
Toner, kgs.....lb. 1.50 - 2.00
Scarlet ink toner, kgs., same Lake, kgs., same basis alizarin lake..lb. .25 - .30
Spanish, oxide, bbls., f.o.b. N.Y..lb. .04½- —
Toluidine toner, kgs., same basis, alizarin lake..lb. 1.05 - —
Tuscan, bbls., f.o.b. N. Y., E. St. Louis..lb. .11 - .40
Venetian, bbls., works.....lb. .0220- —
10%, bbls., works.....lb. .0245- —
15%, bbls., works.....lb. .0265- —
20%, bbls., works.....lb. .02¾- —
25%, bbls., works.....lb. .03 - —
30%, bbls., works.....lb. .03¼- —
35%, bbls., works.....lb. .0360- —
40%, bbls., works.....lb. .04 - —
Vermilion, Amer., bbls., same basis alizarin lake..lb. .15 Nom.
quicksilver, bbls.....lb. 3.12 3.17
Red dyes are listed under Dyes.
Red, precipitate, N. F., powd., fib., dms., 50 lbs. or more..lb. 3.06 - —
Red saunders wood, ground, bbls. lb. .35 - —
Resorcinol, tech., 200 lb. dms., frt., alld., E. of Miss..lb. .68 - —
smaller quantities, works..lb. .74 - —
U.S.P., cryst, 100 lbs., dms., frt., alld., E. of Miss..lb. 1.80 - —
Rhatany root, bgs.....lb. .10 - .11
Rhubarb, cs.....lb. .38 - .40
powd., bbls., kgs.....lb. .43 - .45
Riboflavin .....gram. 1.75 - 2.25
Rochelle salt, cryst., bbls., 5,000 lbs., 1 ship't..lb. .32½- —
smaller lots.....lb. .33 - —
powd., bbls., 5,000 lbs., 1 ship't..lb. .31½- —
smaller lots.....lb. .32 - —
Rose flowers, pale, bls.....lb. .42 - .48
red, bls.....lb. 5.00 Nom.
Rosemary, flowers, bls.....lb. .45 - .50
leaves, bls.....lb. .11 - .12
Rosin, gum B, bbls., ex dock.. 100 lbs. 2.12 - —
D, bbls.....100 lbs. 2.16 - —
E, bbls.....100 lbs. 2.17 - —
F, bbls.....100 lbs. 2.17 - —
G, bbls.....100 lbs. 2.17 - —
H, bbls.....100 lbs. 2.23 - —
I, bbls.....100 lbs. 2.35 - —
K, bbls.....100 lbs. 2.53 - —
M, bbls.....100 lbs. 2.62 - —
N, bbls.....100 lbs. 2.80 - —
W. G., bbls.....100 lbs. 3.10 - —
W. W., bbls.....100 lbs. 3.31 - —
X, bbls.....100 lbs. 3.31 - —
Rottenstone, dom., bgs., c.l., f.o.b. mines..ton.25.50 - —
l.c.l., f.o.b. mines....ton.37.50 - —
Import, lump, bbls.....lb. No prices
powd., bbls.....lb. No prices
Rue, bls.....lb. .30 - .35

S

Sabadilla seed, powd., bbls....lb. .22 - .23
Saccharin, dms., 100 lbs.....lb. 1.45 - —
cns., 25 lbs.....lb. 1.48 - 1.50
Safflower, bls.....lb. .35 - .40
Saffron, Mexican, bls.....lb. .33 - .40
Spanish, tins.....lb.23.00 -24.00
Safrol, ans.....lb. .90 - —
dms.....lb. .85 - —
Sage, Dalmatian, garden, bls..lb. No stocks
stemless, bls.....lb. No stocks
ground, bbls.....lb. 1.40 - 1.45
Greek, bls.....lb. .65 - .70
Spanish, bls.....lb. .35 - .38



"THE CHYMISTS ARE A STRANGE CLASS OF MORTALS IMPELLED BY AN ALMOST INSANE IMPULSE TO SEEK THEIR PLEASURE AMONG SMOKE AND VAPOUR SOOT AND FLAME POISONS AND POVERTY • YET AMONG ALL THESE EVILS I SEEM TO LIVE SO SWEETLY THAT MAY I DIE IF I WOULD CHANGE PLACES WITH THE PERSIAN KING"

So wrote Johann Joachim Becher, "Phlogistonist," in 1669, and indeed the "Chymists" are still a strange class of mortals in 1941. Their language, their conceptions of what constitute frontiers (invisible molecules and atoms), their never-ending hours of work and thought, and their very philosophy of life are unusual and often "almost insane" from the layman's viewpoint. "Chymists", whether buyers or sellers, are "strange people"—one reason why the chemical industries have made such great progress in their fields. HOOKER is glad to be among the "Chymists" and to serve them.

HOOKER

SERVES MANY INDUSTRIES

Abrasive	Insecticide	Pulp and Paper
Anaesthetic	Laundry	Rayon
Anti-Freeze	Lead Refining	Rubber
Battery	Leather	Sewage Purification
Ceramic	Lubricant	Shellac
Chemical	Metal (Non Ferrous)	Soap
Coal Tar	Metal Cleaning	Soft Drink
Container	Metal Polish	Steel
Dairy	Metallurgical	Textile
Dye	Paint	Tobacco
Electrical	Perfume	Tooth Paste
Ferro Alloy	Petroleum	Vegetable Oil
Flour	Pharmaceutical	Washing Solution
Food	Photo Engraving	Water Purification
Fungicide	Plastic	Wire

AND MANY OTHERS

HOOKER ELECTROCHEMICAL COMPANY
NIAGARA FALLS, NEW YORK
NEW YORK CITY TACOMA, WASHINGTON

1634

Sago Flour—Soda Bisulphite

Sago flour, bgs.....lb. .03½- .04
Salicin, bots., 5 lbs.....lb. 7.04 - —
cns., 25 lbs.....lb. 7.00 - —
Salol, gran., bbls., 200 lbs.....lb. .90 - —
bxs., 25 lbs.....lb. .93 - —
kgs., 100 lbs.....lb. .90 - —
powd., fib. dms., 25 lbs.....lb. 1.03 - —
kgs., 100 lbs.....lb. 1.00 - —
Salt, rock, bgs., dlvd., N.Y....ton.13.70 - —
l.c.l., bgs., dlvd., N.Y....ton.15.50 -16.10
vacuum, common, fine, bgs., c.l., dlvd., N.Y..ton.15.70 - —
l.c.l., dlvd., N.Y.....ton.16.60 -19.70
Saltcake, grd., dom., bbls., works, ton.24.00 Nom.
bulk, works.....ton.17.00 Nom.
import, bulk, c.i.f.....ton.16.50 Nom.
Chrome (see Chrome cake).
Saltpeter, dbl., refined, cryst., 10-20 tons, bbls..100 lbs. 8.60 - 9.60
1-9 tons.....100 lbs. 8.75 - 9.75
less than ton lots..100 lbs. 9.00 -10.00
gran., bbls., 10-20 tons.....
100 lbs. 7.60 - —
1-9 tons.....100 lbs. 7.75 - —
less than ton lots..100 lbs. 8.00 - —
powd., bbls., 10-20 tons.100 lbs. 8.60 - —
1-9 tons.....100 lbs. 8.75 - —
less than ton lots...100 lbs. 9.00 - —
Santonin, cryst., cns.....kilo.150.00 -155.00
Saponin, crude, cns.....lb. 2.25 - 2.50
Purified, cns., 25 lbs.....lb. 3.00 - 3.25
Sarsaparilla root, Honduras, bls., lb. .28 - .30
Mexican, bls.....lb. .16 - .18
Sassafras, bark, ord., bls.....lb. .13 - .14
select, bls.....lb. .19 - .20
Savory, bales.....lb. 1.50 - 1.60
Saw palmetto berries, bgs.....lb. .08 - .09
Scammony root, bgs.....lb. .07 - .08
resin, lump, cns.....lb. .85 - —
powd., bxs.....lb. .90 - —
Schaeffer's salt, bgs.....lb. .46 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipment..lb. .25½- —
smaller lots.....lb. .26 - —
kegs, 5,000 lbs., 1 shipm't..lb. .26 - —
smaller lots.....lb. .26½- —
Selenium, pwd. A, 10-lb. tins..lb. 2.00 - —
100-lb. cases.....lb. 1.75 - —
Senega root, spot, bls.....lb. .85 - .87
Senna leaves, Alexandria, half leaf, bls..lb. .18 - .20
siftings, bgs.....lb. .17 - .19
Tinnevelly, No. 1, bls.....lb. .12 - .13
2 bls.....lb. .10 - .11
3 bls.....lb. .08½- .09
powd., bbls., bxs.....lb. .12 - .18
Pods, bls.....lb. .09 - .10
Serpentaria root, bls.....lb. .60 - .65
Shellac, bleached, bonedry, bbls., f.o.b. N.Y..lb. .26 - .27
dlvd., Boston.....lb. .26½- .27½
Chicago .....lb. .26¾- .27¾
Pacific Coast.....lb. .29 - .30
rfd., bbls., f.o.b. N.Y....lb. .32 - .33
dlvd., Boston.....lb. .32½- .33½
Chicago .....lb. .32¾- .33¾
Pacific Coast.....lb. .35 - .36
Garnet, bgs.....lb. .20 - .21
D.C., V.S.O., or Diamond I. cs..lb. .27 - .28
Superfine, bgs., f.o.b. Bost., N.Y..lb. .16½- .17
dlvd., Chicago.....lb. .17 - .17½
Pacific Coast.....lb. .19½- .20
Shellac, T.N., bgs., f.o.b. Bost., N.Y..lb. .16 - .16½
dlvd., Chicago.....lb. .16½- .17
Pacific Coast.....lb. .19 - .19½
varnish, Metro, area, orange, 5-lb. cut, bbls..gal. 1.15 - 1.20
4½-lb. cut, bbls.....gal. 1.10 - 1.15
4-lb. cut, bbls.....gal. 1.05 - 1.10
white, 5-lb. cut, bbls.....gal. 1.25 - 1.30
4½-lb. cut, bbls.....gal. 1.20 - 1.25
4-lb. cut, bbls.....gal. 1.15 - 1.20
Prices, dlvd., Boston or Chicago, 10c. per gal. higher.
Silica, amorph, dry-grd., 95-97%, 325 mesh, bgs., c.l., works..ton.17.00 - —
l.c.l., 2½ tons, works, ton.19.00 - —
smaller lots, works, ton.20.00 - —
wet-grd., 95-97%, 325 mesh, bgs., c.l., works..ton.19.00 - —
l.c.l., 2½ tons, works, ton.21.00 - —
smaller lots, works.ton.25.00 - —
95-97%, 400 mesh, bgs., c.l., works..ton.30.00 - —
l.c.l., 2½ tons, works, ton.35.00 - —
smaller lots, works.ton.38.00 - —
96-98%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., 2½ tons, wks.ton.21.50 - —
smaller lots, works.ton.23.00 - —
amorph., wet-grd., 99%, 325 mesh, bgs., c.l., works.ton.22.00 - —
l.c.l., 2½ tons, works, ton.25.50 - —
smaller lots.....ton.27.00 - —
Silica, hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton.13.50- —
l.c.l., works.....ton.18.50 - —
140 mesh, bgs., c.l., works, ton.11.00 - —
l.c.l., works.....ton.16.00 - —
Silver, bullion.....oz. .54⅝- —
Govt. purchase, dom., metal, oz. .7111- —
Govt. purchase, foreign metal, oz. .35 - —
Cyanide, cns., 2,500 ozs.....oz. No prices
1,000 ozs.....oz. No prices
500 ozs.....oz. No prices
50 to 100 ozs.....oz. No prices
Nitrate, vis.....oz. .26⅞- —
Nucleinate, bots., cns., 480-oz. lots..oz. .30 - .31
Proteinate, bots., cns., 480-oz. lots..oz. .29 - .30
Simarubra barks, bls.....lb. .30 - .35
Skullcap, Eastern, bls.....lb. .23 - .24
Western, bls.....lb. .14 - .15
Skunk cabbage root, bls.....lb. .11 - .12
Slate flour, bgs., c.l., works..ton. 9.00 - —
l.c.l., works.....ton.10.00 -15.00
Sloe berries, bgs.....lb. .20 - .22
Smalt, black, extra velvet, cnts., lb. .06 - .08
Blue, cnts.....lb. .07 - .08½
Snakeroot, Canada, bls.....lb. .24 - .26
Soapbark, bls.....lb. .10½- .11
crushed, bls, bbls.....lb. .13 - .13½
cut, German, bls., bbls.....lb. No stocks
dom., bbls.....lb. .17 - .18
powd., bbls.....lb. .17 - .18
Soda, acetate, anhyd., dms., dlvd. lb. .08¼- .10
flake, gran., powd., 60%, dms., c.l., dlvd..lb. .04 - —
l.c.l., dlvd..lb. .04½- .05
powd., 99%, dms., c.l., dlvd., lb. .06 - —
l.c.l., dlvd.....lb. .06¾- —
Alginate, dms., bbls., works..lb. .69 - .70
Antimoniate, bbls., dlvd.....lb. .14 - .14½
Arsenate, dms., dealers, c.l., works..lb. .07½- —
l.c.l., dms., works.....lb. .08¾- .09¼
Arsenite, dry, gray, dms., c.l dealers, works..lb. .06¼- —
l.c.l., dms., works.....lb. .07 - .07½
white, dms., c.l., dealers, works..lb. .07¼- —
l.c.l., dms., works.....lb. .08 - .08½

Soda arsenite, dry, gray, prices are ¾c. per pound higher in Chicago; 1c. per pound higher in Houston, Tex., and Colorado. White prices are 1c. per pound higher in Tex. and Colo.

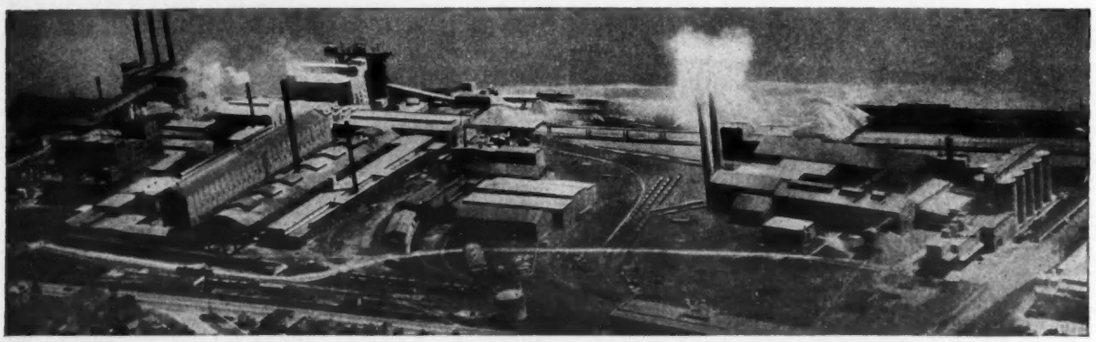
Ash, dense, 58%, bgs., c.l., works..100 lbs. 1.10 - —
l.c.l., Zone 1.....100 lbs. 2.13 - —
2 .....100 lbs. 2.28 - —
3 .....100 lbs. 2.53 - —
4 .....100 lbs. 2.93 - —
bbls., c.l., works...100 lbs. 1.35 - —
l.c.l., Zone 1.....100 lbs. 2.35 - —
2 .....100 lbs. 2.50 - —
3 .....100 lbs. 2.75 - —
4 .....100 lbs. 3.15 - —
bulk, c.l., works....100 lbs. .93 - —
extra light, 58%, bgs., c.l., 100 lbs. 1.05 - 1.08
l.c.l., Zone 1.....100 lbs. 2.08 - —
2 .....100 lbs. 2.23 - —
3 .....100 lbs. 2.48 - —
4 .....100 lbs. 2.88 - —
bbls., c.l., works.....100 lbs. 1.45 - —
l.c.l., Zone 1.....100 lbs. — - —
2 .....100 lbs. 2.60 - —
3 .....100 lbs. 2.85 - —
4 .....100 lbs. 3.25 - —
bulk, c.l.....100 lbs. .90 - —
light, 58%, bgs., c.l., works, lbs. 1.05 - 1.08
l.c.l., Zone 1.....100 lbs. 2.08 - —
2 .....100 lbs. 2.23 - —
3 .....100 lbs. 2.48 - —
4 .....100 lbs. 2.88 - —
bbls., c.l., works.....100 lbs. 1.35 - —
bbls., l.c.l., Zone 1..100 lbs. 2.35 - —
2 .....100 lbs. 2.50 - —
3 .....100 lbs. 2.75 - —
4 .....100 lbs. 3.15 - —
bulk, c.l.....100 lbs. .90 - —

Soda ash l.c.l prices are per 100 lbs. f.o.b. recognized warehouse points and include delivery in any quantity to customer's sidewalk within recognized local trucking distance of seller's warehouse. The sales zones are:—Zone 1: All Northern U.S. E. of Miss. river and North of the Southern boundaries of Ky. and Va., including also St. Louis, Mo., and Davenport, Ia., parallel: La., Miss., Ala., South of 31° Texas, E. of 100° Meridian and S. of 31° parallel and Fla., in Me., N. H. and Vt.; special local zone prices apply for ship't to various counties. Zne 2: Ark. East of 98° Meridian, Neb., E. of 98° Meridian; Tex., N. of 31° parallel and E. of 100° Meridian (except Wichita Falls), Ala., La., and Miss. N. of 31° parallel; Iowa (except Davenport), Ga., Minn., Mo. (except St. Louis), N. and S. C. and Tenn. Zone 3: Kansas, Neb., W. of 98° Meridian, Tex., W. of 100° Meridian (including Wichita Falls, but excluding El Paso), N. and S. D., Okla., Ark., W. of 98° Meridian. Zone 4: El Paso, Tex.; Ariz., Colo., Idaho, Mont., Nev., N. M., Utah and Wyo.

Benzoate, tech., bbls., 4,000 lbs. or more..lb. .39 - —
1,000 to 3,900 lbs.....lb. .40 - —
900 lbs. or less.....lb. .43 - —
USP, bbls., fib., 4,000 lbs. or more..lb. .46 - —
1,000 to 3,900 lbs.....lb. .47 - —
900 lbs. or less.....lb. .50 - —
Bicarbonate, tech., bbls., c.l., works..100 lbs. 1.70 - —
l.c.l. .....100 lbs. 2.05 - —
bgs., c.l.....100 lbs. 1.35 - 1.60
l.c.l. .....100 lbs. 1.90 - 1.95
USP, gran., bbls., c.l., works, 100 lbs. 2.25 - —
powd., bbls., c.l., works..
l.c.l., dlvd., N.Y..100 lbs. 1.85 - —
kgs., c.l.....100 lbs. 2.51 - —
l.c.l., dlvd., N.Y..100 lbs. 2.10 - —
Bichromate, spot, c.l., works, lb. 2.76 - —
l.c.l., 6 cks, or 10 bbls. or over, works..lb. .06¾- —
5 cks., or 9 bbls. or less, works..lb. .07 - —
Bifluoride, bbls.....lb. .07¼- —
Bisulphite, powd., bbls., c.l., works..100 lbs. .11½- .12
l.c.l., works.....100 lbs. 3.00 - 3.10
solution, 32 deg., bbls., c.l., works..100 lbs. 2.50 - 2.60
l.c.l., bbls., works..100 lbs. 1.89 - —
38 deg., bbls., c.l., works.. 100 lbs. 1.55 - —
l.c.l., bbls., works..100 lbs. 1.35 - —
35 deg., bbls., c.l., works.. 100 lbs. 1.60 - —
l.c.l., bbls., works..100 lbs. 1.40 - —
44 deg., bbls., works.100 lbs. 1.65 - —
l.c.l., bbls., works..100 lbs. 1.85 - —

Where Wyandotte Industrial Chemicals are Manufactured

• Here are the North (above) and South Plants of the Michigan Alkali Company, home of Wyandotte Chemicals — spread over 300 acres along the Detroit River, with 50 salt wells, 42 miles of pipes, a railroad, lime-kilns, coke plant, docks, and dozens of constantly active chemical units — the source of hundreds of thousands of tons of alkalies each year.



• For more than 50 years, Michigan Alkali salt wells at Wyandotte, Mich., have been pumping brine to make Wyandotte Soda Ash. Michigan Alkali's own ships, plying the Great Lakes, bring limestone and coal to help produce basic chemicals needed in scores of industries.

Production of Wyandotte chemicals is continuous — the fires in several of the Michigan Alkali plants have been burning steadily since 1901. New products are constantly being developed. Wyandotte Research and Technical Service are becoming increasingly important to Michigan Alkali customers.

Perhaps you have a problem which Michigan Alkali can help you solve. Night and day, by air, rail and highway, Michigan Alkali Technical Men go out into the field. Backed by the research facilities of the Michigan Alkali Laboratories, they are equipped to help you.

* * *

• Make your reservations now for the Drug, Chemical and Allied Trades Banquet at the Waldorf-Astoria on March 13th.

MICHIGAN ALKALI COMPANY

WORKS: WYANDOTTE, MICHIGAN • GENERAL SALES OFFICE: 60 E. 42ND STREET, NEW YORK CITY

Manufacturers of: Soda Ash, Caustic Soda, Bicarbonate of Soda, Calcium Chloride, Dry Ice, Liquid Chlorine, Calcium Carbonate, Coke, Cement, Tar, Toluol, Benzol, Xylol, Calcium Hypochlorite

Soda, bromide, USP, gran., bbls., 500 lbs..lb. .27 - —
fiber dms., 100 lbs.....lb. .28 - —
Cacodylate, 1-kilo bots.....lb. No prices
Carbonate (see Soda ash, soda monohydrated, soda sal).
Caustic, flake, 76%, powd., ammon. process, bbls., c.l., works..100 lbs. 2.95 - —
dms., c.l., works..100 lbs. 2.70 - —
l.c.l., Zone 1....100 lbs. 3.55 - 4.90
2 .....100 lbs. 3.70 - 5.05
3 .....100 lbs. 3.95 - 5.30
4 .....100 lbs. 4.35 - 5.70
electro process, dms., c.l., works..100 lbs. 2.70 - —
l.c.l., same zone prices as ammonia process.
liquid, 47-49%, buyers' tanks, works..100 lbs. 1.92½- —
sellers' tanks, works, 100 lbs. 1.95 - —
70%, buyers' tanks, works, 100 lbs. 1.97½- —
sellers' tanks, works, 100 lbs. 2.00 - —
solid, 76% ammon., process, dms., c.l., works..100 lbs. 2.30 - —
l.c.l., Zone 1 .....100 lbs. 3.15 - —
2 .....100 lbs. 3.30 - —
3 .....100 lbs. 3.55 - —
electro process, dms., c.l., works..100 lbs. 2.30 - —
Soda, caustic, solid, electro process, dms., l.c.l., same zone prices as ammon. process. Caustic soda, l.c.l., prices are on the same basis as those for soda ash. The sales zones are also the same.

Chlorate, dom., cryst., bgs., c.l., works..lb. .06¼- —
l.c.l., works.....lb. .06½- —
powd., bgs., c.l., works..lb. .06½- —
l.c.l., works.....lb. .07 - .08¼
Chromate, spot, c.l., works..lb. .08¼- —
l.c.l., 6 cks., 10 bbls. or over, works..lb. .08¾- —
smaller quantities.....lb. .09¾- —
Citrate, USP VIII, 225-lb. bbls., lb. .18½- —
cns., 50-lb. lots.....lb. .20½- —
25-lb. lots.....lb. .22½- .23½
kgs., 100-lb. lots.....lb. .19½- —
USP XI, gran., bbls., 250-lb. lots..lb. .24 - —
boxes, 50-lb. lots.....lb. .26 - —
cns., 25-lb. lots.....lb. .28 - .29
kgs., 100-lb. lots.....lb. .25 - —
powd., bbls., 250-lb. lots..lb. .24½- —
boxes, 50-lb. lots.....lb. .26½- —
cns., 25-lb. lots.....lb. .29½- —
kgs., 100-lb. lots.....lb. .25½- —
Cyanide, 96-98%, dom., dms. lb. .14 - .15
imports, 90%, cs.....lb. No price
Diacetate, 33-35% acidity, bbls., dlvd..lb. .09 - —
Fluoride, white, 90%, bbls., c.l., frt. alld..lb. .07 - —
l.c.l., 10 or over, same basis..lb. .07¼- —
1-9, same basis.....lb. .08 - —
95%, bbls., c.l., same basis, lb. .07¼- —
l.c.l., 10 or over, same basis..lb. .07¾- —
1-9, same basis.....lb. .08¼- —
Soda fluoride prices at Los Angeles are f.a.s. works.

Glycerophosphate, NF, cryst., bbls., 1,000-lb. lots..lb. 1.10 - —
smaller lots.....lb. 1.25 - —
cns., 25 lbs.....lb. 1.50 - —
powd., bbls., 1,000-lb. lots..lb. 1.15 - —
smaller lots.....lb. 1.30 - —
cns., 25 lbs.....lb. 1.55 - —
Hydrosulphite, dms.....lb. .17 - .18
Hydroxide, USP, sticks, cns., 100 to 1,000-lb. lots..lb. .22 - .24
Hypophosphite, N. F., cns., 100-lb. lots..lb. .67 - —

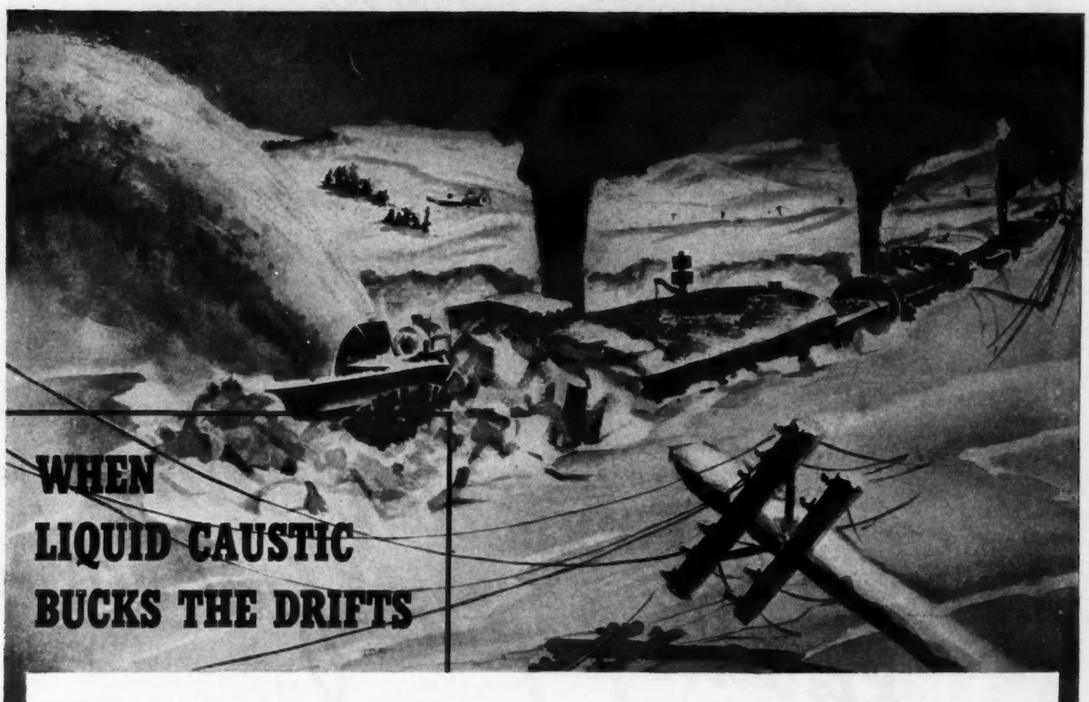
Hyposulphite, cryst., large, bgs., works, frt. equal'd..100 lbs. 2.25 - —
bbls., same basis...100 lbs. 2.45 - —
l.c.l., bgs., works, frt. equal'd..100 lbs. 2.50 - —
bbls., same basis...100 lbs. 2.70 - —
pea, bgs., c.l. works..100 lbs. 2.60 - —
bbls., works.....100 lbs. 2.80 - —
dms., works.....100 lbs. 3.10 - —
5,000 lbs. and over, bgs., works..100 lbs. 2.75 - 3.00
bbls., works.....100 lbs. 2.95 - 3.20
dms., works.....100 lbs. 3.25 - 3.60
2,500 to 5,000 lbs., bgs., works..100 lbs. 2.85 - 3.10
bbls., works.....100 lbs. 3.05 - 3.30
dms., works.....100 lbs. 3.35 - 3.60
500 to 2,500 lbs., works, 100 lbs. 3.10 - 3.25
bbls., works.....100 lbs. 3.30 - 3.55
dms., works.....100 lbs. 3.60 - 3.85
less than 500 lbs., bgs., works..100 lbs. 3.70 - 3.95
bbls., works.....100 lbs. 3.90 - 4.15
dms., works.....100 lbs. 4.20 - 4.45
Iodate, jars.....lb. 5.40 - —
Iodide, jars.....lb. 2.42 - —
bots. .....lb. 2.53 - 2.67
Mandelate, dms., 100-lb. dms.lb. 3.25 - —
Metanilate, bgs.....lb. .41 Nom.
Metasilicate, anhydr., dms., c.l., works, frt. equald..100 lbs. 3.75 - —
15 dms. and over, dlvd. N.Y..100 lbs. 4.65 - —
3-14 dms., same basis.. 100 lbs. 4.80 - —
1-2 dms., same basis.. 100 lbs. 5.05 - —
gran., bbls., c.l., works...lb. .2.35 - —
10 bbls. and over, dlvd., N.Y..lb. 3.10 - —
1-9 bbls., dlvd. N.Y.....lb. 3.35 - —
Molybdate, kgs., works.....lb. .60 - —
less kgs.....lb. .65 - —
Monohydrated, bbls.....100 lbs. 2.60 - —
works .....100 lbs. 2.30 - —
Naphthionate, bbls.....lb. .50 - —
Nitrate, crude, c.l., 100-lb. bgs., dlvd., f.o.b. cars producing points or ports, rail or boat shipment..ton.29.40 - —
200-lb. bgs., same basis.. ton.28.70 - —
bulk, same basis.....ton.27.00 - —
rfd., gran., bbls., 10 ton.. 100 lbs. 2.50 - —
1-9 tons.....100 lbs. 2.65 - —
smaller lots.....100 lbs. 2.90 - —
powd., bbls., 10 tons.100 lbs. 5.50 - —
1-9 tons.....100 lbs. 5.65 - —
Nitrite, 96-98%, dom., bbls., c.l., works, frt. equalized, lb. .06¾- —
c.l., West Coast, f.o.b. ports..lb. .08 - —
l.c.l. .....lb. .08¼- .11½
Soda nitrite l.c.l. prices range represents delivery at various points.

Soda, orthosilicate, anhy., dms., c.l., works, frt. equal'r, lb. 4.50 - —
15 dms. and over, same basis..lb. 5.45 - —
3-14 dms., same basis..lb. 5.60 - —
1-2 dms., same basis..lb. 5.85 - —
flake, dms., c.l., works.. 100 lbs. 3.00 - —
Oxalate, neut., bbls.....lb. .09 - —
kgs. .....lb. .10 - .11
Perborate, NF, bbls., c.l., works, lb. .14¾- —
l.c.l., works.....lb. .15¼- —
Pentachlorphenate briquets, single bgs., works..lb. .26 - —
70 lbs., bgs., works.....lb. .19½- —
490 lbs. bgs., works.....lb. .17½- —
powd., 100 lbs., bgs., works, lb. .19 - —
500 lbs., bgs., works.....lb. .17 - —
Phosphate, dibasic, anhyd., bgs., c.l., works..100 lbs. 5.15 - 5.40
l.c.l., works.....100 lbs. 6.10 - 6.35
bbls., c.l., works...100 lbs. 5.35 - 5.60
l.c.l., works.....100 lbs. 6.30 - 6.55
cryst., tech., bgs., c.l., works, 100 lbs. 2.10 - 2.20
l.c.l., works.....100 lbs. 2.50 - 2.60
bbls., c.l., works...100 lbs. 2.30 - 2.40
l.c.l., works.....100 lbs. 2.70 - 2.80
monobasic, anhyd., bgs., c.l., works..100 lbs. 7.25 - —
l.c.l., works..... 100 lbs. 8.00 - —
bbls., c.l., works...100 lbs. 7.45 - —
l.c.l., works.....100 lbs. 8.20 - —
tribasic, bgs., c.l., works..lb. 2.25 - 2.35
l.c.l., works.....100 lbs. 2.65 - 2.75
bbls., c.l., works...100 lbs. 2.45 - 2.55
l.c.l., works.....100 lbs. 2.85 - 2.95

Soda, phosphate, tribasic, bgs., c.l., works..100 lbs. 2.95 - 3.05
l.c.l., works.....100 lbs. 3.35 - 3.45
USP (dibasic), bbls., works, lb. .09 - .11
dried, bbls., dms., works..lb. .11½- .14
Picramate, kgs.....lb. .65 - —
Prussiate, yellow, bbls., 10,000 lbs. or more..lb. .10¼- —
contracts .....lb. .09½- —
smaller lots.....lb. .10¾- —
contracts .....lb. .09¾- —
Pyrophosphate, anhyd., bgs., c.l., works, frt., equal'd.100 lbs. 5.10 - —
l.c.l., same basis..100 lbs. 5.35 - 5.60
bbls., c.l., works, frt. equalized..100 lbs. 5.50 - —
l.c.l., same basis...100 lbs. 5.55 - 5.80
Ricinoleate, tech., bbls.....lb. .12 - —
Sal., bgs., dlvd. N. Y...100 lbs. 1.20 - —
works .....100 lbs. 1.60 - —
bbls., dlvd. N. Y.....100 lbs. 1.30 - —
works .....lb. 1.10 - 1.30
Salicylate, bxs.....lb. .52 - —
Sesquicarbonate, bgs., c.l., works, 100 lbs. 1.50 - —
bbls., c.l., works...100 lbs. 1.70 - —
bbls., l.c.l., Zone 1...100 lbs. 2.70 - —
2 .....100 lbs. 2.85 - —
3 .....100 lbs. 3.10 - —
4 .....100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. prices are on same basis as those for soda ash and caustic soda. The sales are also the same.
Sesquisilicate, dms., c.l., works, 100 lbs. 2.00 - —
10 dms. or over, dlvd. N.Y.C., lb. 4.00 - —
1-9 dms.....lb. 4.25 - —

Soda, Bromide—Soda, Sulphite

Soda, silicate, 40° turbid, dms., c.l., works..lb. .80 - —
l.c.l., 5 or more, works, 100 lbs. 1.05 - —
1 to 4, works....100 lbs. 1.20 - —
52°, dms., c.l., works..100 lbs. 1.40 - —
l.c.l., 5 or more, works, 100 lbs. 1.65 - —
1 to 4, works.....100 lbs. 1.80 - —
Silicofluoride, dom., bbls.....lb. .09¾- .11
Stannate, dms.....lb. .32½- .35½
Stearate, lump, powd., bbls., works..lb. .19 - .24
Sulphate, anhyd., bgs., bbls., c.l., works..100 lbs. 1.45 - 1.65
5 tons or over, works, 100 lbs. 1.70 - 1.90
less than 5 tons, works, 100 lbs. 1.95 - 2.15
cryst. (see Glauber's salt).
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.25 - —
l.c.l., 5 tons or over, dlvd., 100 lbs. 2.75 - —
less than 5 tons, dlvd., 100 lbs. 3.00 - —
solid, bbls., c.l., works.100 lbs. 3.00 - —
l.c.l., 5 tons or over, dlvd., 100 lbs. 3.50 - —
less than 5 tons, dlvd., 100 lbs. 3.75 - —
Sulphite, cryst., bgs., 100 lbs., works..lb. 2.10 - 2.35
bbls. .....100 lbs. 2.30 - 2.55
powd., bbls., c.l.....100 lbs. 5.25 - —
l.c.l., 5 or more....100 lbs. 5.50 - —
1 to 4.....100 lbs. 6.00 - —



UP to two years ago, cold weather meant that Liquid Caustic Soda stayed liquid only a short time after leaving the plant—would have to be steamed for hours before unloading. In cold weather or warm, it was sure to pick up enough metallic contamination from the car to make it worthless for some uses.

Two Columbia achievements have ended these troubles. One is the first protective coating to successfully withstand the action of Liquid Caustic at high temperatures. The other was the development of a new type of car—so effectively insulated that even 73% Liquid Caustic stays hot and liquid throughout ordinary shipping schedules.

For two full years these Columbia developments have proved their value to Liquid Caustic users. Because Columbia Caustic arrives as a purer product—and ready for unloading without tedious, costly "defrosting." Practical improvements such as these are typical of our efforts to make *all* Columbia products more profitably useful to our customers.

If it's a Columbia Product—you're sure it's the best

SODA ASH • CAUSTIC SODA
SODIUM BICARBONATE
CALCIUM CHLORIDE
LIQUID CHLORINE
HENNIG PURIFIER
MODIFIED SODAS
CAUSTIC ASH
PHOSFLAKE
CALCENE
SILENE

You'll like the way Columbia Products—backed by Columbia Technical Service—do their job for you.

COLUMBIA
COLUMBIA CHEMICALS

PITTSBURGH PLATE GLASS COMPANY
Columbia Chemical Division
30 ROCKEFELLER PLAZA
NEW YORK, N.Y.

Chicago • Boston • St. Louis • Pittsburgh • Cincinnati • Cleveland • Minneapolis • Philadelphia • Charlotte

Give your exterior paints that lasting, youthful "complexion"

One certain way to gain the important quality of color retention is by pigmenting your white and tinted coatings with the newer types of TITANOX-A (titanium dioxide). These improved pigments, of which there are three, contribute better color retention in varying degrees – more than ever was obtainable with the original TITANOX-A. Color retention is a corollary of chalking resistance, and chalking resistance is the primary purpose for which the newer TITANOX-A pigments were created.

Color Retaining, Chalk Resisting

titanium dioxides suitable for exterior paints.

TITANOX-AA ..... *Good*
TITANOX-A No. 24.. *Better*
TITANOX-A NC..... *Best*

TITANOX
TRADE MARK
THE WHEEL HORSE OF THE PAINT INDUSTRY

• *Our Service Department will gladly assist you to select the proper* TITANOX-A *to meet your color-retention problems.*

TITANIUM PIGMENT CORPORATION
SOLE SALES AGENT

111 Broadway, New York, N. Y.
104 South Michigan Avenue, Chicago, Illinois
National Lead Company (Pacific Coast Branch)
2240 24th Street, San Francisco, California

Soda, sulphocarbolate, bbls., dms., lb. .27 - .31
Sulphocyanide, dms., cns....lb. .28 - .47
Sulphohydrate, liquid, 38%, basis 100%, dms., c.l., f.o.b. works..lb. .05½- —
l.c.l., works.....lb. .06 - —
single dm. lots, works....lb. .08 - —
tanks, works.....lb. .04½- —
Sulphoricinolate, bbls.....lb. .12 - —
Thiosulphate (see Hyposulphite).
Tungstate, CP, kgs.....lb. No prices
tech., kgs.....lb. No prices
Solvent, naphtha, dms., wks..gal. .31 - —
tanks, E. of Omaha, frt. alld., gal. .26 - —
W. Coast, f.o.b. Minnequa, Colo..gal. .26 - —
high-flash, dms., works..gal. .31 - —
tanks, E. of Omaha, frt. alld..gal. .26 - —
Sorbitol, com'l, dms., c.l., works, lb. .14¾- —
ton lots, contracts, works, lb. .15¼- —
smaller lots, works.....lb. .15¾- —
Soybean protein, bgs., c.l., works, lb. .11½- —
l.c.l., works.....lb. .11¾- .15
Sparteine sulphate, cns.....oz. 3.00 - 3.25
Spearmint leaves, bls.....lb. .30 - .31
Spikenard root, bls.....lb. .16 - .17
Spruce extract, reg., bbls., c.l., works..lb. .01½- —
tanks, works.....lb. .01¼- —
powd., super, bgs., c.l., works, lb. .04 - —
super, bbls., c.l., works.....lb. .01½- —
tanks, works.....lb. .01¾- —
Squawvine, leaves, bls.....lb. .14 - .15
Squill, red, powd.....lb. 1.25 - 1.30
White, bls.....lb. No prices
powd., bbls., bxs.....lb. No prices
St. Ignatius beans, bgs.....lb. .45 - .46
St. John's Bread, edible, bls., lb. .15 - .20
inedible, bls.....lb. .09 - .10
Starch, corn, pearl, bgs., f.o.b. Chicago..100 lbs. 2.90 - —
dlvd., N.Y.....100 lbs. 3.25 - —
powd., bgs., f.o.b. Chicago, 100 lbs. 3.60 - —
dlvd., N.Y.....100 lbs. 3.35 - —
Potato, dom., bgs.....lb. .04½- .05½
import, bgs.....lb. No price
Rice, bbls.....lb. .07½- .08¾
Sweetpotato, bgs.....lb. .06¾- —
bbls.....lb. .07 - —
Wheat, thick, boil, bgs.....lb. .05 - —
Starch, iodide, bots.....lb. 1.87 - —
Staveacre, seed, bgs.....lb. .35 - .40
Stearin, oleo, bbls.....lb. .06¾ Nom.
Stillingia root, bls.....lb. .07½- .08
Stoneroot, bls.....lb. .07½- .08
Storax, cs.....lb. .75 - .80
Stramonium leaves, bls.....lb. .45 - .50
Strontium bromide, cns.....lb. .53 - .55
Carbonate, NF, IV, 250-lb. bbls..lb. No prices
tech., 99-100%, precip., bbls., lb. .25 Nom.
Chloride, tech., bbls.....lb. .22 - .26
Iodide, bots., 5 lbs.....lb. 3.00 - —
jars, 25 lbs.....lb. 3.00 - —
Nitrate, dom., bbls., c.l., works, lb. .07¾- —
25 bbls. and over.....lb. .08¼- —
1-24 bbls. and over.....lb. .08¾- —
Strophanthus seed, Kombe, bgs..lb. 3.75 - 4.00
Strolyl acetate, bots.....lb. 3.10 - 3.20
Strychnine, cryst., cns., 100-oz. lots..oz. .60 - —
Acetate, 25-oz. cns., 100-oz. lots..oz. .79 - —
Arsenate, 25-oz. cns., 100-oz. lots..oz. .82 - —
Arsenite, 25-oz. cns., 100-oz. lots..oz. .79 - —
Glycerophosphate, 25-oz. cns., 100-oz. lots..oz. .80 - —
Hydrochloride, 25-oz. cns., 100-oz. lots..oz. .79 - —
Hypophosphite, 25-oz. cns., 100-oz. lots..oz. .91 - —
Nitrate, 25-oz. cns., 100-oz. lots..oz. .73 - —
Phosphate, 25-oz. cns., 100-oz. lots..oz. .80 - —
Sulphate, cryst., cns., 100-oz. lots..oz. .50 - —
powd., cns., 100-oz. lots.oz. .40 - —
Sucrose Octa-acetate, denat. grade, bbls., l.c.l., works..lb. .45 - —
tech., bbls., l.c.l., works.....lb. .40 - —
Sugar coloring, bbls.....gal. .75 - 1.45
Milk, bbls., c.l.....lb. .16 - —
l.c.l., 10 or over.....lb. .17 - —
less than 10.....lb. .18 - —
Sulfanilamide, 5 lbs., bots.....lb. 1.70 - —
fib. dms., 1,000 lbs., 1 delivery, lb. 1.25 - —
100 lbs.....lb. 1.30 - —
25-lb. lots.....lb. 1.45 - —
Sulfapyridine, powd., for hospitals, 5-grain bots..bot. 1.25 - —
Sulphonethylmethane, kgs.....lb. 6.75 - 6.80
Sulphonmethane, kgs.....lb. 5.25 - —
Sulphur, crude, bulk, f.o.b. cars, mines, contracts..long ton. 16.00 - —
f.o.b. steamers, Gulf ports, contract..long ton. 17.50 - —
Flowers, USP, bgs., c.l., mine, 100 lbs. 2.80 - —
l.c.l., mine.....100 lbs. 3.35 - —
bbls., c.l., mine.....100 lbs. 3.15 - —
l.c.l., mine.....100 lbs. 3.70 - —
Flour, comm'l., bgs., c.l., mine, 100 lbs. 1.40 - —
l.c.l., mine.....100 lbs. 1.95 - —
Refined, cast, bgs., c.l., mine, 100 lbs. 1.95 - —
l.c.l., mine.....100 lbs. 2.50 - —
heavy, USP, bgs., c.l., mine, 100 lbs. 2.35 - —
l.c.l., mine.....100 lbs. 2.90 - —
bbls., c.l., mine.....100 lbs. 2.70 - —
l.c.l., mine.....100 lbs. 3.25 - —
light, USP, bgs., c.l., mine, 100 lbs. 2.45 - —
l.c.l., mine.....100 lbs. 3.00 - —
bbls., c.l., mine.....100 lbs. 2.80 - —
l.c.l., mine.....100 lbs. 3.35 - —
lump, bgs., c.l., mine...100 lbs. 1.95 - —
l.c.l., mine.....100 lbs. 2.50 - —
bbls., c.l., mine.....100 lbs. 2.10 - —
l.c.l., mine.....100 lbs. 2.65 - —
roll, bgs., c.l., mine....100 lbs. 2.15 - —
l.c.l., mine.....100 lbs. 2.70 - —
bbls., c.l., mine.....100 lbs. 2.30 - —
l.c.l., mine.....100 lbs. 2.85 - —
Rubbermakers, comm'l, 99½%, bgs., c.l., frt. alld..100 lbs. 2.00 - —
refined, 100%, bgs., c.l., frt. alld..100 lbs. 2.85 - —
Chloride, 55-gal. dms., c.l....lb. .03 - —
l.c.l., dms., works.....lb. .04 - —
10-gal. dms., c.l.....lb. .07 - —
l.c.l.....lb. .08 - —
Dioxide, liquid, com'l, cyls., works..lb. .07 - .09
multi-unit, cars, works...lb. .04½- .07
tanks, works.....lb. .04 - .06
refrigeration, cyls., works..lb. .16 - .40
multi-unit cars, works...lb. .07½- .10
Iodide, bots., 1grs.....lb. 3.90 - 4.05
Precipitated, USP, bbls.....lb. .17 - .22
Sumac, grd., Sicilian, f.a.s...ton. No prices
leaf, f.a.s.....ton. No prices
Extract, 42°, bbls.....lb. .06 - .06¼
51°, bbls.....lb. .07 - .07¼
stainless, bbls.....lb. .09 - .11
Berries, bgs.....lb. .10 - .12
Sunflower seed, Calif., large, bgs., lb. .06½- .07
medium, bgs.....lb. .06 - .06¼
poultry, Argentine.....lb. .0455- .0475
Superphosphate, guaranteed, 16%, bulk, f.o.b. cars, boat, Balto., ton. 8.50 - —
run-of-pile, basis 16%, bulk, same basis..ton. 8.00 - —
triple, 40-48%, a.p.a., bulk, fob. Balto..unit-ton. .68 - —

T

Talc, dom., Calif., 1, bgs., c.l., mills..ton. 20.00 - —
2, bgs., c.l., mills.....ton. 17.00 - —
N. Y., fibrous, 93-94%, 325 mesh, bgs., c.l., mills..ton. 14.00 -16.00
l.c.l., mills.....ton. 16.00 -18.00
96-98%, 325 mesh, c.l., mills, ton. 15.00 -17.00
l.c.l., mills.....ton. 17.00 -19.00
98-99½%, 325 mesh., bgs., c.l., mills..ton. 15.25 -17.25
l.c.l., mills.....ton. 17.25 -19.25
98-99½%, 325 mesh, bgs., l.c.l., mills..ton. 17.00 -19.00
coarse, off color, bgs., c.l., mills..ton. 11.00 -13.00
Ohio, flake, type grd., bgs., c.l., mills..ton. 21.00 - —
l.c.l., mills.....ton. 24.50 - —
Vermont, bgs., c.l., mills...ton. 14.00 - —
l.c.l., ex whse.....ton. 25.00 - —
Imp., Canad., bgs., c.l., mills, ton. No prices
French, high-grade, bgs., l.c.l., ex whse..ton. No prices
ordinary, bgs., c.l., ex dock, arrival..ton. No prices
l.c.l., ex whse.....ton. No prices
Italian, 1, bgs., ex dock, arrival..ton. No prices
ex whse.....ton. No prices
2, bgs, ex dock, arrival..ton. No prices
Tallow, extra, loose.....lb. .05 - —
special, loose.....lb. .04¾- —
sulphonated, 35% (24% fat), dms., c.l..lb. .03¾- —
l.c.l.....lb. .04¾- —
50% (43% fat), dms., c.l..lb. .05¼- —
l.c.l.....lb. .06¼- —
50% (43% fat), dms., c.l..lb. .05¾- —
l.c.l.....lb. .06¾- —
Tamarind, No. 1, bbls.....lb. .06 - .07
kegs.....kg. 6.00 - 8.00
Tankage, fertilizer, animal, doms., grd., 9% ammon., 10% b.p.l., bulk, basis N.Y..unit-ton. 2.50 & .10
10-11% ammon., 15% b.p.l., oulk, basis Chi..unit-ton. 2.50 & .10
feeding, unground, 9-11% ammon., 15-20% b.p.l., bulk, basis N.Y..unit-ton. 2.65 & .10
high-grade, oulk, Chicago unit-ton. 3.00 & .10
import, S. Amer., 10-12% ammon., 15% b.p.l., bulk, c.i.f. ports, January shipments, unit-ton. 2.75 & .10
Tansy leaves, bls.....lb. .22 - .23
Tapioca flour, bgs.....lb. .03 - .05
Tar acid oil, 15%, dms., c.l., works..gal. .22 - —
l.c.l., same basis.....gal. .24 - —
25%, dms., c.l., works.....gal. .25 - —
l.c.l., same basis.....gal. .27 - —
Tar, pine, retort, dms., c.l., dlvd. E. cities..gal. .27 - —
ports.....gal. .26 - —
l.c.l.....gal. .27 - —
tanks, dlvd. E. cities....gal. .21 - —
Tarragon herb, bgs.....lb. 1.10 Nom.
Tartar emetic, tech., fine gran. or powd., bbls., 5 or more, lb. .39¾- —
less than 5.....lb. .40 - —
USP, powd., bbls.....lb. .45 - —
Terebene, cns.....lb. .75 - .85
Terpinyl acetate, cns.....lb. .80 - .85
Terpin hydrate, bgs.....lb. .60 - .65
Terpineol, CP, cns.....lb. .26 - —
dms.....lb. .23 - —
alpha, denat. grade, dms., c.l., wks., net wgt..lb. .17 - —
Terra alba (see Gypsum).
Tetrachloroethane, dms., wks..lb. .08 - .08¼
Tetrachloroethylene, CP, dms..lb. .21¼- —
tech. (see Perchloroethylene).
Tetralin, dms.....lb. .18 - —
Tetrasodium pyrophosphate (see soda pyrophosphate).
Thallium sulphate, 99% pure, bots., works..lb. 5.00 - 7.00
Theobromine, dms.....lb. 2.90 - 3.00
Sodiosalicylate, cns.....lb. 2.15 Nom.
dms.....lb. 1.95 Nom.
5-lb. bots.....lb. 2.31 - 2.36
Thiocarbanilide, dms.....lb. .24 - —
Thorium, nitrate, cs., works...lb. 2.00 - —
Thyme, French, bls.....lb. .65 - .67
Spanish, bls.....lb. .11¼- .12
Thymol, dms., 100 lbs.....lb. 1.40 - —
cns., 25 lbs.....lb. 1.45 - 1.50
Iodide, kgs., 50 lbs.....lb. 3.40 - —
25 lbs.....lb. 3.50 - —
Thiamine hydrochloride, cns.gram. .99 - 1.00
Timbo root (see Cube root).
Tin chloride (ous), anhyd.....lb. .47 - .47½
Crystals, bbls., kgs.....lb. .33 - .33½
Metal, Straits.....lb. .5035- —
Oxide, bbls.....lb. .54 - .56
Tetrachloride, anhyd., bbls...lb. .25½- .25¾
Titanium, dioxide, bgs., c.l., (20 tons)..lb. .13¼- —
l.c.l., 5 tons, single delivery, lb. .13¾- —
1,000-9,999 lbs.....lb. .14 - —
50-999 lbs.....lb. .14¼- —
under 50 lbs.....lb. .16¼- —
bbls., c.l. (20 tons).....lb. .13¾- —
l.c.l., 5 tons, single delivery, lb. .14 - —
1,000-9,999 lbs.....lb. .14¼- —
50-999 lbs.....lb. .14½- —
non-chalking, bgs., c.l. (20 tons)..lb. .15¼- —
l.c.l., 5 tons, single delivery, lb. .15¾- —
1,000-9,999 lbs.....lb. .16 - —
50-999 lbs.....lb. .16¼- —
under 50 lbs.....lb. .16½- —
bbls., c.l. (20 tons).....lb. .15¾- —
l.c.l., 5 tons, single delivery, lb. .16 - —
1,000-9,999 lbs.....lb. .16¼- —
50-999 lbs.....lb. .16½- —
chalk-resistant, bgs., c.l., (20 tons)..lb. .14 - —
l.c.l., 5 tons, single delivery, lb. .14¼- —
1,000-9,999 lbs.....lb. .14¼- —
50-999 lbs.....lb. .14¾- —
under 50 lbs.....lb. .17 - —
Titanium, dioxide, chalk-resistant, bbls., c.l. (20 tons)..lb. .14¼- —
l.c.l., 5 tons, single delivery, lb. .14½- —
1,000-9,999 lbs.....lb. .14¾- —
50-999 lbs.....lb. .15 - —
barium or magnesium base, bgs., c.l., (20 tons)..lb. .05½- —
l.c.l.....lb. .05¾- —
under 50 lbs.....lb. .06¼- —
bbls., c.l. (20 tons).....lb. .05¾- —
l.c.l.....lb. .06 - —
calcium base, bgs., c.l. (20 tons) lb. .05¼- —
l.c.l.....lb. .05¾- —
under 50 pounds.....lb. .06¼- —
bbls., c.l. (20 tons).....lb. .05½- —
l.c.l.....lb. .05¾- —
calcium-rutile base, bgs., c.l. (20 tons)..lb. .05¾- —
l.c.l.....lb. .05¾- —
under 50 lbs.....lb. .06¼- —
bbls., c.l. (20 tons).....lb. .05¾- —
l.c.l.....lb. .05¾- —
Carload prices are f.o.b. factories with actual freight paid. Less than carload prices are f.o.b. factories or ex warehouse with actual freight or trucking paid, except on the Pacific Coast, where they are f.o.b. warehouses.
Toluidin base, distilled, kgs....lb. .96 - —
Tolu, balsam, cns.....lb. .85 - .90
Toluidin, mixed, dms.....lb. .26 - —
Toluol (toluene), 2° indus. dms., returnable..gal. .32 - —
tanks, E. of Omaha, frt. alld. gal. .27 - —
tanks, W. Coast, f.o.b. Minnequa, Colo..gal. .27 - —
1° nitration, dms., returnable, gal. .33½- —
tanks, E. of Omaha, frt. alld. gal. .28½- —
W. Coast, f.o.b. Minnequa, Colo..gal. .28½- —
Tonga vine, F. bls.....lb. .65 - .70
root, bls.....lb. .65 - .70
Tonka beans, Angostura, cks...lb. 2.40 - 2.50
Brazilian, Surinam, cs...lb. .70 - .85
Triacetin, dms.....lb. .26 - —
Triamyl borate, dms., l.c.l., works, lb. .27 - —
Triamylamine, l.c.l., works....lb. .90 - —
Tributylamine, dms., c.l., works, lb. .67 - —
l.c.l., same basis.....lb. .70 - —
tanks.....lb. .65 - —
Tributyl citrate, ton lots, 475-lb. dms..lb. .24 - —
smaller lots.....lb. .26 - —
Phosphate, dms., l.c.l., dlvd..lb. .42 - —
cns., works.....lb. .46 - .48
Trichlorobenzene, dms., c.l., frt. alld..lb. .07 - —
l.c.l., same basis.....lb. .07½- —
tanks.....lb. .06½- —
Trichlorethylene, dms., c.l., works, frt. alld., Zone 1..lb. .08 - —
l.c.l., same basis.....lb. .08½- —
Zone 2, dms., c.l., works, frt. alld..lb. .08¼- —
l.c.l., same basis.....lb. .09 - —
Zone 3, dms., c.l., works, frt. alld..lb. .09 - —
l.c.l., same basis.....lb. .09½- —
Zone 4, dms., c.l., f.o.b. stock points..lb. .09 - —
l.c.l., same basis.....lb. .09½- —
All prices on trichlorethylene are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Zone 1 includes the following States:—Conn., Md., N. Y., Va., Ky., Me., N. J., Vt., W. Va., Mo., Tenn., Ind., Ia., Pa., R. I. Ill., Mich., Minn., Wis., Del.; Mass., N. C., O., Omaha, Neb.; except Omaha; S. D., Miss., Ark., S. C., La., Okla. and Fla. Zone 3 includes Colo., N. M., Wyo., Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev., Wash., Utah and Cal.
Tricresyl phosphate, CP, cns., dlvd..lb. .40½- .51¼
dms., c.l., dlvd.....lb. .34½- —
Tech., dms.....lb. .22 - —
500 lbs., dms.....lb. .22¼- —
less than 500 lbs.....lb. .25½- .36½
Triethanolamine, dms., c.l., works, lb. .19 - —
l.c.l., works.....lb. .20 - —
tanks, works.....lb. .18 - —
Triethylamine, dms., l.c.l., works, lb. 1.05 - —
Triethyl citrate, ton lots, 500-lb. dms..lb. .24 - —
smaller lots.....lb. .26 - —
Triethyl phosphate, dms., dlvd., lb. .45 - —
Triethyleneglycol, dms., l.c.l., works..lb. .26 - —
Trimethyl phosphate, cns.....lb. .54 - .56
dms., dlvd.....lb. .50 - —
Trimethylamine, dms., c.l., dlvd., lb. 1.00 - —
l.c.l., dlvd.....lb. 1.05 - —
Triphenyl phosphate, dms.....lb. .38 - —
Tripoli, air-floated, bgs., c.l., works..ton. 26.00 - —
double grd., bgs., c.l., works, ton. 16.00 - —
once-grd., bgs., c.l., works.ton. 14.50 - —
Trisodium phosphate (see Soda phosphate, tribasic).
Tungsten metal powd., 98% dms., works..lb. No prices
Oxide, CP, kgs.....lb. No prices
Chem. grade, kgs.....lb. No prices
Turmeric root, Alleppey, bgs..lb. .07½- .08
Madras, bgs.....lb. .07¼- .07½
Turpentine, spirits, gum, bbls., c.l., ex dock..gal. .45½- —
l.c.l., 10 ex dock.....gal. .47½- —
5 ex dock.....gal. .49½- —
wood, dest., dist., dms., c.l., dlvd. E. ports..gal. .35 - —
l.c.l.....gal. .36 - —
tanks, dlvd. E. cities..gal. .30 - —
steam-dist., dms., c.l., dlvd.gal. .37 - —
l.c.l., dlvd.....gal. .40 - —
tanks, dlvd.....gal. .32 - —

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, kgs.....lb. 2.25 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 46% N., brs., 20 tons, f.o.b. Belle, W. Va., Searsport, Me., Norfolk, Wilmington, N. C., Charleston, Savannah, Jacksonville, Tampa, Pensacola, Mobile, Gulfport, New Orleans..ton. 85.00 - —
5 tons, f.o.b. Baltimore, Boston, New York, Newark, Philadelphia, Wilmington, Del..ton. 85.00 - —

Soda, Sulphocarb.—Whiting

Urea, dom., 46%, bgs., smaller lots, f.o.b. Newark, New York, Philadelphia...ton. 91.00 - —
any quantity, f.o.b. Belle, W. Va...ton. 85.00 - —
import, 40% N., bgs., 5 tons, f.o.b. Atl., Gulf ports or Belle, W. Va., ship..ton. No prices
smaller lots, f.o.b. N. Y. whse..ton. No prices
pure, cs.....lb. .12 - —
Urea-ammonia, basis 42% N., bulk, c.l., f.o.b. Belle, W. Va., or Atl., Gulf ports..ton. 57.40 - —
bags, same basis.....ton. 59.40 - —
45% N., tanks, f.o.b. Belle, W. Va., or Atl., Gulf ports. ton. 121.58 - —
37% N. (insoluble), f.o.b. Belle, W. Va., or Atl., Gulf ports..ton. 127.00 - —
Uva ursi leaves, bls.....lb. .11 - .12

V

Valerian root, bls.....lb. 1.25 - 1.50
Valonia, beards, bgs., f.a.s...ton. No price
cups, bgs., f.a.s.....ton. No price
Vanadium pentoxide, C.P., bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.10 - —
Vanilla beans, Bourbon, tins..lb. 9.50 Nom.
Mexican, tins.....lb. 9.50 Nom.
cuts, tins.....lb. 8.50 Nom.
South American, tins.....lb. 9.50 Nom.
Tahiti, tins.....lb. 9.50 Nom.
Oleoresin, bots.....lb. 5.75 Nom.
Vanillin, ex eugenol, 25-lb. tins, lb. No quotations
5-lb. tins.....lb. 2.60 - —
1-lb. tins.....lb. 2.65 - —
ex guaiacol, 25-lb. tins.....lb. 2.75 - —
5-lb. tins.....lb. 2.50 - —
1-lb. tins.....lb. 2.55 - —
ex lignin, 25-lb. tins.....lb. 2.65 - —
5-lb. tins.....lb. 2.50 - —
1-lb. tins.....lb. 2.55 - —
Venice turpentine, true, cs.....lb. 2.65 - —
Verdigris, bbls., kgs.....lb. 1.25 - 1.30
Vinyl acetate, cns., works.....lb. .22 - .28
dms., c.l., 30,000 lbs. gross, works..lb. .25 - —
l.c.l., works.....lb. .14 - —
5 gals., dms., works.....lb. .15 - —
Violet, methyl, toner (see M).
V.M.P. naphtha (see petroleum naphtha, v.m.p.).

W

Wahoo bark, bls.....lb. .40 - .41
tree.....lb. .19 - .22
Wattle bark, bgs., f.a.s.....ton. 37.50 -39.50
Extract, solid, bgs.....lb. .08¾- —
Wax, bayberry, import, bgs..lb. .19 - .20
Bees, white, bleach, slabs, cs., lb. .38 - .46
cake, cs.....lb. .39 - .41
discs, cs.....lb. .40 - .42
yellow, crude, Africa, 10-bg. lots..lb. .30 Nom.
1 bg.....lb. .30½ Nom.
Brazil, bgs., 5-ton lots..lb. .31 - .32
1 ton.....lb. .31½ - .32¼
500 lbs.....lb. .32 - .33
100 lbs.....lb. .32¾- .33
refd., slabs, cs., lbs.....lb. .35 - .36
Candelilla, bgs., 1 ton.....lb. .19¼- .20
Jobbing lots.....lb. .20 - .20¼
Carnauba, No. 3 chalky, bgs., 1 ton..lb. .56 - .57
5 bgs.....lb. .56½- .57½
1 bg.....lb. .57 - .58
N. C., 2, bgs., 1 ton.....lb. .63 - .64
N. C., 3, bgs., 1 ton.....lb. .59 - .60
5 bgs.....lb. .59½- .60½
1 bg.....lb. .60 - .61
refined, bgs.....lb. .65 - .66
yellow, No. 1, bgs, ton....lb. .68 - .69
5 bgs.....lb. .68½- .69¼
1 bg.....lb. .69 - .70
No. 2, bgs.....lb. .67 - .68
Ceresin, dom., 138°, 140° m.p., bgs., 1 ton..lb. .11 - .11¼
jobbing lots.....lb. .12 - .12½
150°-160° m.p., bgs., 1 ton..lb. .13 - .13½
jobbing lots.....lb. .14 - .14¼
160° m.p., bgs., 1 ton.....lb. .14 - .14½
jobbing lots.....lb. .15 - .15½
Japan, cs.....lb. .17 - .17½
Montan, bgs., c.l.....lb. No prices
5 tons.....lb. No prices
less than 1 ton.....lb. No prices
Ozokerite, hard, green congeal, p. 66°-68° C., bgs..lb. No prices
70°-72° C., bgs.....lb. No prices
74°-76° C., bgs.....lb. No prices
Snow-white, pure, 76°-78° C., bgs..lb. No prices
yellow, natural, 76°-78° C., bgs..lb. No prices
Paraffin (see P).
Spermaceti, blocks, cs.....lb. .24 - .25
cakes, cs.....lb. .25 - .26
White lead (see Lead, white).
White pine bark, rossed, bls..lb. .07 - .08
White precipitate, powd., dms., 50 lbs. or more..lb. 2.54 - —
Whiting, chalk, com'l, dry-grd., bip. bgs., c.l., works..ton. 16.00 -20.00
l.c.l., works.....ton. 18.00 -22.00
bbls., c.l., works.....ton. 19.00 -24.00
l.c.l., works.....ton. 21.00 -26.00
pap. bgs., c.l., works..ton. 15.00 -18.00
l.c.l., works.....ton. 17.00 -20.00
wet-grnd., bip. bgs., c.l., works..ton. 18.50 -22.50
l.c.l., works.....ton. 19.00 -23.00
bbls., c.l., works.....ton. 21.00 -25.00
gliders, bolted, bip. bgs., c.l., works..ton. 18.00 - —
l.c.l., works.....ton. 19.00 - —
bbls., c.l., works.....ton. 20.00 -21.00
l.c.l., works.....ton. 21.00 -22.00
pap. bgs., c.l., works..ton. 17.00 -18.50
l.c.l., works.....ton. 18.00 -19.00
extra bolted, bip. bgs., c.l., works..ton. 20.00 - —
l.c.l., works.....ton. 21.00 - —
bbls., c.l., works.....ton. 22.00 -23.00
l.c.l., works.....ton. 23.00 -24.00
pap. bgs., c.l., works..ton. 19.00 -20.50
l.c.l., works.....ton. 20.00 -21.00
Paris white, bip. bgs., c.l., works, ton. 19.00 - —
l.c.l., works.....ton. 20.00 - —
bbls., c.l., works.....ton. 22.50 -27.50
l.c.l., works.....ton. 22.00 -23.00
pap. bgs., c.l., works..ton. 19.66 -25.10
l.c.l., works.....ton. 20.00 -26.50

SANTOLITE RESINS CAN GIVE YOU THESE ADVANTAGES:

1. Harder films.
2. Increased moisture resistance.
3. Good light stability.
4. Greater flexibility and toughness.
5. Improved workability and increased flow.
6. Low viscosity solutions.
7. Colorless lacquers.

CHARACTERISTICS OF SANTOLITES

The Santolites are condensation products of aromatic sulfonamides with formaldehyde.

	MS	MHP	K
COLOR AND FORM	Soft, pale yellow	Hard, brittle nearly colorless lumps	Soft, viscous resin, nearly colorless
FLASH POINT	295°F.	310°F.	400°F.
SPECIFIC GRAVITY AT 25°C.	1.355	1.35 (approx.)	1.307
REFRACTIVE INDEX	1.5705 ± 0.0015 at 50°C.	1.5095 ± 0.0015 at 30°C. (25% in toluene)	1.5370 ± 0.003 at 50°C.
SOLUBILITY	Soluble in practically all organic solvents except petroleum hydrocarbons and varnish oils.		
RETENTIVITY* IN N/C	Over 100	Over 100	Over 100
RETENTIVITY* IN AC/C	Over 100	Over 100	Over 100
ACID NUMBER	Neutral	Neutral	10 Max.

*Retentivity is given in parts per 100 parts by weight of the N/C or AC/C.

The Santolite resins are outstanding in the specialty coating field. Because of their numerous advantages they are being used successfully in a wide variety of finishes that must meet many types of conditions.

Perhaps you have a plasticizer or resin problem. If so, we invite you to submit it to our technical staff.

For additional information write for the 40-page booklet, "Plasticizers and Resins." . . . MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, St. Louis, U. S. A.

MONSANTO CHEMICALS
SERVING INDUSTRY . . . WHICH SERVES MANKIND

Whiting, limestone, air floated, 99.75%, 250 mesh, paper bags, c.l..ton 9.65 - —
200 mesh, paper bgs., c.l., same basis..ton. 8.60 - —
90%, 200 mesh, paper bgs., c.l., same basis..ton. 6.25 - —
gilders, bgs. (extra), c.l., works, ton.11.50 - —
l.c.l., 8-20 tons, works..ton.12.50 - —
4-8 tons, works.....ton.13.50 - —
2-4 tons, works.....ton.14.50 - —
wet-grd., limestone, gilders, extra, bgs., c.l., works, ton.12.50 - —
l.c.l., 8-20 tons, works.ton.13.50 - —
4-8 tons, works.....ton.14.50 - —
2-4 tons, works.....ton.15.50 - —
putty grade, bgs. (extra), c.l., works..ton.11.00 - —
l.c.l., 8-20 tons, works.ton.12.50 - —
4-8 tons, works.....ton.13.00 - —
2-4 tons, works.....ton.14.00 - —
water-floated, bgs. (extra), c.l., works.ton.11.50 - —
l.c.l., 8-20 tons, works.ton.12.50 - —
4-8 tons, works.....ton.13.50 - —
2-4 tons, works.....ton.14.50 - —
Precipitated, bgs., c.l., works, ton.15.00 - —
l.c.l., 5 tons, works....ton.20.00 - —
smaller lots, works..ton.25.00 - —
Wild cherry bark, thick, natural, bls..lb. .07 - .08
rossed, bls.....lb. .05 - .06
thin, natural, bls.....lb. .07 - .08
rossed, green, bls.....lb. .10 - .11
Wild indigo root, bls.....lb. .13 - .14
Witch-hazel extract, dist., NF, tax extra, bbls..gal. .40 - .45
leaves, bls.....lb. .07 - .09
Witherite (see Barium carbonate, natural).
Woodflour, dom., 60 mesh, bgs., c.l., f.o.b. N.Y...ton.24.00 -25.00
80 mesh, same basis.....ton.26.00 -26.00
100 mesh, same basis.....ton.30.00 -32.00
import, 70 mesh, bgs., ex dock, ton. No prices
80 mesh, bgs., ex dock..ton. No prices
100 mesh, bgs., ex dock..ton. No prices
120 mesh, bgs., ex dock..ton. No prices
Wormseed, American, bgs.....lb. .07 - .08
Levant, bgs.....lb. No prices
Wormwood, bls.....lb. 1.00 - 1.10

X

Xylol (xylene), indus., dms., returnable, works..gal. .31 - —
tanks, E. of Omaha, frt. alld. gal. .26 - —
tanks, W. Coast, f.o.b. Minnequa, Colo..gal. .26 - —
10°, dms., returnable, works, gal. .34 - —
tanks, E. of Omaha, frt. alld. gal. .29 - —
5°, dms., returnable, works, gal. .41 - —
tanks, E. of Omaha, frt. alld. gal. .39 - —
3°, dms., returnable, works.gal. .48 - —
tanks, E. of Omaha, frt alld. gal. .46 - —
Xylidin, mixed, dms.....lb. .35 - .36

Y

Yara yara, cryst., cns.....lb. 1.25 - 1.55
Yellow, arsenic sulphide, dom., bbls., f.o.b. New York..lb. .55 - —
bottles, same basis.....lb. .60 - .64
imp., bbls., same basis.....lb. .55 - —
Cadmium, CP, import., bxs..lb. 1.35 - 1.40
lithopone, all shades, bbls., 1 ton, works., frt. alld..lb. .50 - —
smaller lots, same basis..lb. .55 - —
kgs., ton lots, same basis, lb. .55 - —
smaller lots, same basis, lb. .60 - —
Sulphide, orange, bbls., works, lb. .75 - —
Yellow, chrome, CP, bbls., dlvd., No. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .13½- —
open order.....lb. .14½- —
Chrome yellow CP prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex., (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.). Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. coast for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Dutch, pink, bbls.....lb. .09 - .11
Hansa, bbls., same basis, chrome..lb. 1.37 - —
primrose shade, bbls., same basis, chrome..lb. 1.75 - —
Mercury oxide (see M).
Ocher, Amer., golden A, bbls., works..lb. .06½- —
B, bbls., works.....lb. .04½- —
C, bbls., works.....lb. .05¾- —
yellow A, bbls., works....lb. .02¼- —
B, bbls., works.....lb. .02½- —
C, bbls., works.....lb. .02 - —
D, bbls., works.....lb. .0195- —
E, bbls., works.....lb. .01775- —
F, bbls., works.....lb. .01½- —
G, bbls., works.....lb. .01½- —
H, bbls., works.....lb. .01¾- —
French, all shades, cks., c.l., ex dock, Balto, Boston, N. Orleans for import..lb. .02475 Nom.
New York (f.o.b.)..lb. .02¾ Nom.
Philadelphia for import..lb. .02¾ Nom.
ex dock San Pedro, San Francisco..lb. .0290 Nom.
l.c.l., ex dock, Balto, Boston, N. Orleans..lb. .02575 Nom.
New York.....lb. .02¾ Nom.
Phila., for import...lb. .02¾ Nom.
Portland, Seattle....lb. .03½ Nom.
San Pedro, S. Francisco..lb. .03 Nom.
ex whse., Balto., Boston, N. Orleans..lb. .02725 Nom.
ex whse., Indianapolis, Kan. City, Milwaukee, St. Louis..lb. .03¾ Nom.
New York.....lb. .03 Nom.
Pittsburgh.....lb. .03¼ Nom.
Portland, Seattle....lb. .03¾ Nom.
San Pedro, S. Francisco..lb. .03¼ Nom.
f.o.b. N.Y., from dock, lb. .02¾ Nom.
from whse.....lb. .03½ Nom.
Oxide, nat., bbls., c.l., f.o.b. Bethlehem, Easton, N. Y. lb. .04¼- —
l.c.l., same basis.....lb. .04¾- —
synth., bbls., c.l., works...lb. .06½- —
l.c.l., same basis.....lb. .06¾- —
Persian orange (see O).
Zinc, bbls., same basis, chrome CP, contracts..lb. .16 - —
open order.....lb. .16 - —
Navy specification type, contracts..lb. .16 - —
open order.....lb. .16 - —
Yellow dock root, dom., bls....lb. .17 - .18
Yellow root (xanthorisa), bls..lb. .11 - .13
Yerba santa leaves, bls.....lb. .09 - —
Yohimbine hydrochloride, vis..oz. 3.00 - 3.50

Z

Zein, bgs., 1,000 lbs. or more, works..lb. .20 - —
less than 1,000 lbs., works..lb. .25 - —
Zinc acetate, tech., bbls., dlvd., lb. .15 - .16
USP, bbls., 250 lbs.....lb. .27 - —
kgs., 100 lbs.....lb. .29 - —
Arsenite, bgs., c.l., dealers, E. of Rockies..lb. .12 - —
l.c.l., bgs.....lb. .12½- —
Zinc arsenite prices are on a frt. alld. basis to dest., in lots of 96 lbs. or over.
Carbonate, tech., bbls.....lb. .14 - .16
USP, precip., powd., bbls..lb. .32½- —
25 lb. dms.....lb. .37½- —
kgs.....lb. .34½- —
Zinc, chloride, tech., fused, dms., c.l., works..100 lbs. 4.25 - —
l.c.l., works.....100 lbs. 4.60 - —
gran., dms., c.l., works, 100 lbs. 5.00 - —
USP, 200-lb. dms.....lb. .26 - —
25-lb. jars.....lb. .31 - —
solution, 50%, dms., c.l., works..lb. .0290- —
l.c.l., works.....lb. .04 - .04½
tanks, works.....lb. .0225- —
Cyanide, kgs., works.....lb. .33 - —
Dust, bbls., c.l., dlvd.....lb. .09¼- —
l.c.l., bbls., dlvd.....lb. .09¾- —
Iodide, N. F., bots.....lb. 4.35 - —
jars.....lb. 4.20 - —
Fluoride, bbls.....lb. .20 - .35
Meta (see daily quotations in Market report).
Oxide, pigment, dom., Amer. process, coml., lead free, bgs., c.l., dlvd..lb. .06½- —
l.c.l., dlvd., except Pac. cst..lb. .06¾- —
ex whse., Pac. cst..lb. .06¾- —
bbls., c.l., dlvd...lb. .06¾- —
l.c.l., dlvd., except Pac. cst..lb. .07 - —
ex whse., Pac. cst..lb. .07 - —
leaded, 5%, bgs., c.l., dlvd..lb. .06¾- —
l.c.l., dlvd., except Pac. cst..lb. .06¾- —
ex whse., Pac. cst..lb. .06¾- —
35%, bgs., c.l., dlvd.lb. .06 - —
l.c.l., dlvd., except Pac. cst..lb. .06¼- —
ex whse., Pac. cst..lb. .06¼- —
bbls., c.l., dlvd...lb. .06¾- —
l.c.l., dlvd., except Pac. cst..lb. .06½- —
ex whse., Pac. cst..lb. .06½- —
50%, bgs., c.l., dlvd., except Pac. cst..lb. .06 - —
Pac. cst..lb. .0606- —
l.c.l., dlvd., except Pac. cst..lb. .06¼- —
ex whse., Pac. cst..lb. .06¼- —
bbls., c.l., dlvd, except Pac. cst..lb. .06½- —
ex whse., Pac. cst..lb. .06½- —
French process, com'l, lead free, bgs., c.l., dlvd..lb. .06½- —
l.c.l., dlvd., except Pac. cst..lb. .06¾- —
ex whse., Pac. cst..lb. .06¾- —
bbls., c.l., dlvd..lb. .06¾- —
l.c.l., dlvd., except Pac. cst..lb. .07 - —
ex whse., Pac. cst..lb. .07 - —
green seal, bgs., c.l., dlvd., lb. .08¼- —
l.c.l., dlvd., except Pac. cst..lb. .06¼- —
ex whse., Pac. cst..lb. .06¼- —
bbls., c.l., dlvd..lb. .08¼- —
l.c.l., dlvd., except Pac. cst..lb. .08¾- —
ex whse., Pac. cst..lb. .08¾- —
red seal, bgs., c.l., dlvd.lb. .07¾- —
l.c.l., dlvd., except Pac. cst..lb. .08 - —
ex whse., Pac. cst..lb. .08 - —
bbls., c.l., dlvd.....lb. .08 - —
l.c.l., dlvd., except Pac. cst..lb. .06¼- —
ex whse., Pac. cst..lb. .06¼- —
white seal, bgs., c.l., dlvd..lb. .08¾- —
l.c.l., dlvd., except Pac. cst..lb. .09 - —
ex whse., Pac. cst..lb. .09 - —
bbls., c.l., dlvd..lb. .09 - —

Whiting—Zirconium

Zinc, oxide, French process, white seal, bbls., c.l., dlvd., except Pac. cst..lb. .09½- —
ex whse., Pac. cst..lb. .09¾- —
imported, gold seal, cks., ex whse..lb. No prices
green seal, bbls., ex whse..lb. No prices
white, seal, cks., ex whse..lb. No prices
USP, bbls., c.l.....lb. .09¾- —
Palmitate, bbls.....lb. .24½- .27½
Resinate, fused, pale, bbls..lb. .10 - —
precip., dms., dlvd.....lb. .15 - —
Stearate, tech., precip., bbls., ctns., c.l..lb. .22 - —
l.c.l., 1 ton.....lb. .23 - —
1,000-2,000 lbs.....lb. .24 - —
less than 1,000 lbs..lb. .25 - —
USP, bbls.....lb. .23 - .26
Sulphate, cryst., bgs., c.l.... 100 lbs. 3.00 - —
l.c.l. .....100 lbs. 3.75 - —
bbls., c.l.....100 lbs. 3.15 - —
l.c.l. .....100 lbs. 3.90 - —
flake, bgs., c.l.....100 lbs. 3.35 - —
l.c.l. .....100 lbs. 4.10 - —
bbls., c.l.....100 lbs. 3.50 - —
l.c.l. .....100 lbs. 4.25 - —
powd., bgs., c.l.....100 lbs. 4.70 - —
l.c.l. .....100 lbs. 5.45 - —
bbls., c.l.....100 lbs. 4.85 - —
l.c.l. .....100 lbs. 5.60 - —
Sulphide, bgs., c.l. (20 tons), dlvd..lb. .07¾- —
l.c.l., dlvd., E. or ex whse., Pac. cst..lb. .08 - —
bbls., c.l., 20 bbls., c.l. (20 tons), dlvd..lb. .08 - —
l.c.l., dlvd., E. or ex whse., Pac. cst..lb. .08¼- —
barium, pigment, bgs., c.l., dlvd..lb. .05¼- —
l.c.l., dlvd., E. or ex whse., Pac. cst..lb. .05½- —
calcium pigments, bgs., c.l., dlvd..lb. .05¼- —
l.c.l., dlvd., E. or ex whse., Pac. cst..lb. .05½- —
magnesium, pigment, bgs., c.l., dlvd..lb. .05¼- —
l.c.l., dlvd., E. or ex whse., Pac. cst..lb. .05¾- —
Sulphocarbonate, NF, bbls., dms..lb. .24 - .30
Zinc-ammonia chloride, dms., c.l., works..100 lbs. 5.15 - —
l.c.l., works.....100 lbs. 5.50 - —
Zinc-iron oxide, pigment, bgs., c.l., dlvd..lb. .05¼- —
l.c.l., dlvd., except Pac. cst..lb. .05¾- —
ex whse., Pac. cst..lb. .05¾- —
Zirconium nitrate, kgs., works.lb. 3.00 - 4.00
Oxide, crude, 70-75%, gr., bbls., works..ton.75.00 -100.00
white, 96%, grd., kgs., works, lb. 1.80 - 2.00

Synthetic Resins
and other
Branded Paint Materials
(Manufacturers' List Prices)

Note:—The list of prices previously printed weekly under the above heading is now printed once a month. The latest printing was in the Feb. 3 issue; the next printing will be in the Mar. 3 issue. Changes in prices—if any—made during the past week are noted in the report on the Paint, Varnish and Lacquer Materials market which begins on page 41.

Oils and Fats Statistics: 1940

Preliminary statistics of the factory production, consumption, and stocks of animal and vegetable fats and oils for the quarter ending December 31, 1940, have been released by the Bureau of Census. The following tables present the data issued for the final quarter of 1940, as well as compiled figures for the entire year.

Vegetable Oils

Pounds

	Production—Fourth quarter.	Production—1940.	Consumption—Fourth quarter.	Consumption—1940.	Factory and warehouse stocks Dec. 31, 1940.
Babassu, crude	13,859,000	60,949,778	9,598,000	58,854,909	7,188,000
Babassu, refined	3,360,000	20,863,477	2,201,000	17,489,808	610,000
Castor	27,069,000	99,972,205	15,675,000	54,003,392	20,866,000
Chinawood	(1)	(1)	14,717,000	58,807,400	57,128,000
Cottonseed, crude	603,968,000	1,272,733,000	485,194,000	1,266,702,924	176,626,000
Cottonseed, refined	461,302,000	1,175,981,428	328,495,000	1,234,729,920	458,335,000
Coconut, crude	87,883,000	347,221,752	150,410,000	594,571,047	242,973,000
Coconut, refined	73,938,000	290,229,409	52,296,000	223,022,512	14,123,000
Corn, crude	38,329,000	158,299,591	39,798,000	166,380,154	9,320,000
Corn refined	36,008,000	151,806,349	13,900,000	73,609,109	11,006,000
Linseed	192,185,000	606,155,296	100,837,000	386,991,791	153,820,000
Olive, edible	2,581,000	3,777,678	704,000	4,785,406	9,947,000
Olive, inedible	.....	.....	1,302,000	6,163,861	2,649,000
Palm, crude	.....	.....	38,724,000	148,767,729	146,681,000
Palm, refined	10,732,000	34,511,795	13,472,000	43,511,795	7,445,000
Palmkernel, crude	(1)	(1)	2,309,000	7,326,704	1,371,000
Palmkernel, refined	1,991,000	6,173,705	1,548,000	5,659,318	1,169,000
Peanut, virgin and crude	57,024,000	83,507,000	38,199,000	62,399,043	19,232,000
Peanut, refined	36,420,000	58,736,845	14,471,000	35,726,710	22,510,000
Perilla	(1)	(1)	2,159,000	18,713,110	6,998,000
Rapeseed	.....	.....	1,805,000	8,877,005	6,545,000
Sesame	(1)	(1)	89,000	1,343,135	1,932,000
Soybean, crude	156,194,000	336,986,751	105,748,000	442,250,629	62,135,000
Soybean, refined	92,164,000	387,409,338	107,561,000	377,225,826	30,446,000
Sulphur oil or olive foots	.....	.....	1,302,000	15,921,611	2,649,000
All other	4,846,000	22,440,970	4,782,000	23,238,801	12,048,000
Fish Oils					
Cod and codliver	4,041,000	5,582,955	6,025,000	17,399,172	13,801,000
Herring and sardine	77,961,000	(2)	(2)	(2)	(2)
Menhaden	6,725,000	(2)	(2)	(2)	(2)
Marine animal oils	.....	60,669,175	3,506,000	58,136,092	53,202,000
Other fish oils	2,965,000	108,144,448	42,287,000	130,772,529	132,455,000

Animal Fats

Pounds

	Production—Fourth quarter.	Production—1940.	Consumption—Fourth quarter.	Consumption—1940.	Factory and warehouse stocks Dec. 31, 1940.
Lard, neutral	802,000	3,307,923	686,000	2,386,042	681,000
Lard, other edible	472,941	1,682,616,233	4,625,000	26,842,911	287,902,000
Neatsfoot oil	1,069,000	3,985,230	1,432,000	5,505,243	1,518,000
Tallow, edible	19,987,000	78,644,179	13,291,000	46,576,690	6,799,000
Tallow, inedible	178,087,000	711,342,566	249,327,000	884,912,743	303,357,000
Greases					
Bone	6,986,000	31,453,440	265,000	2,976,324	2,710,000
Brown	22,821,000	79,635,636	14,379,000	51,494,905	18,387,000
Garbage or house	11,579,000	46,565,062	6,452,000	14,606,275	4,494,000
Tankage	11,486,000	48,094,749	1,749,000	16,692,035	4,149,000
Wool	3,565,000	9,918,823	2,085,000	7,354,642	6,921,000
White	35,237,000	212,981,089	26,074,000	101,205,196	43,314,000
Yellow	29,924,000	112,737,004	43,735,000	149,117,455	47,680,000
All other	4,853,000	13,267,405	3,900,000	16,517,806	6,347,000
Other Products					
Cottonseed foots, 50% basis	42,109,000	122,635,847	42,618,000	126,146,078	15,948,000
Cottonseed foots, distilled	10,616,000	33,127,222	6,869,000	26,607,687	3,936,000
Other veg. oil foots, 50% bas.	22,098,000	89,537,186	15,448,000	61,132,741	3,654,000
Other veg. oil foots, dist	92,000	840,015	16,000	602,229	141,000
Fatty acids	33,145,000	123,109,433	25,555,000	98,212,825	9,861,000
Fatty acids, distilled	11,383,000	42,794,640	5,711,000	19,571,384	6,696,000
Glycerin, 80% crude basis	49,261,000	197,096,198	57,990,000	207,151,796	19,822,000
Gylcerin, dynamite	19,450,000	72,282,098	11,401,000	40,737,042	27,303,000
Glycerin, chemically pure	26,217,000	141,611,953	10,088,000	116,457,782	30,987,000
Hydrogenated oils	216,138,000	803,404,170	216,468,000	789,140,451	27,130,000
Lard oil	8,060,000	27,837,626	3,776,000	12,842,611	3,415,000
Oleo oil	19,199,000	69,475,235	4,434,000	15,885,978	5,284,000
Red oil	15,897,000	53,358,990	9,741,000	33,363,391	7,977,000
Shortening	332,320,000	1,169,615,357	869,000	5,223,727	53,700,000
Soap stock, acidulated	14,441,000	49,084,078	17,692,000	60,056,990	25,585,000
Miscellaneous	419,000	2,026,786	499,000	1,633,306	1,027,000
Stearic acid	11,886,000	41,392,164	4,728,000	16,267,904	5,083,000
Stearin, vegetable	19,149,000	71,585,887	13,550,000	47,269,031	10,013,000
Stearin, animal, edible	11,281,000	37,896,372	7,034,000	30,563,143	4,753,000
Stearin, animal, inedible	6,504,000	19,076,439	3,742,000	11,606,493	5,101,000
Tallow oil	2,875,000	9,070,660	1,424,000	5,402,907	1,757,000

(1) Included under "All Other Vegetable Oils."
(2) Included under "Other Fish Oils."

Oil, Paint and Drug Reporter

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Vol. 139 February 10, 1941 Number 6

Chemical Business Had a Good Year

—*Continued from page* 3

The net "favorable" balance of foreign trade in chemicals, oils, and drugs was, however, about 75 percent, considerably larger than that for general trade. At the end of the year, manufacturers of chemicals, oils, and drugs had relatively smaller inventories than were reported for the consumer goods group. In the former group, wholesalers' inventories were practically at 1939 levels; while the general group reported an average increase of 4 percent.

Comparisons of the data below for the various divisions of the chemical, oil, and drug industry will show that conditions varied widely among them. But, their records as a whole show gratifying activity and profit.

Employment in the chemical, oil, and drug industries gained almost six times the general consumer goods advance in comparison with the last quarter of 1939. Payrolls showed almost twice the general gain. The increase in individual weekly earnings was 20 percent less than that for the consumer goods group—but the former earnings had a 34.5 percent greater dollar value. In comparison with the consumer goods group the chemical, oil, and drug industries showed also 12.5 percent larger relative employment and 31.2 percent larger payrolls. It is timely to repeat that, if all industries were on a parity with the chemical, oil, and drug group in volume of employment and value of pay, there would be no cause to fear whither business will drift or drop when the props of defense buying are taken from under it.

The Outlook

It is that long-view eventuality which puzzles most those who endeavor to fathom the future and to prepare for what it will bring. Their puzzling is in part fear, of themselves primarily and of everybody and everything else consequently; because, while those who are troubled by business trends and results usually speak as though some unidentified "they" or indefinite, extrahuman agency were the force majeure in such things, they know, even though they will not admit it to themselves, that whatever business does man has made it do. And they know that, under the temptation of profit or even the possibility thereof, human behavior cannot be predicted, although it cannot be expected to consider tomorrow in the excitement of today.

Two questions hold in their answering the key to what the nearby future will bring, and on what is that cargo depends what will happen in the next epoch. One of these questions is—How can costs and prices be kept down to safely absorbable size? The other is:—How can the production demands of defense be apportioned to the capacity of industry so as to avoid expansion that must be atrophied away when the time comes that there is no more of the luxury sustenance on which it has fed?

The answering of these questions cannot be left to the future. The disastrous results of such procrastination, albeit tempered for a decade by the unprecedented advances in automotives and radio, were the depression aftermath of the previous World War boom. If businessmen are guided by such intelligence as should be their lot, and neither by supernatural nor by subhuman fetiches; these questions will be answered satisfactorily—and conclusively, for the answer must stick. The law of supply and demand is not imperative. Demand can be checked by simple human willing when to do so is wise for the years to come. Just because the buying public, because of the enterprise of defense, or of war, has more money to spend is no reason why it should be induced to spend its all in large part for things without which it has well managed to get along.

If normal business is kept at its 1940 volume and variety—it must be known that shifts are dangerous to the essential balance—it will be satisfactory for those left by some draft or another to engage in it. In fact, the past year's volume in certain lines might well and wisely be curtailed at least in proportion to the removal of buyers by selective service or other national call. In this way can defense business be found a place that will not leave it dangling over a precipice when its emergency has ended.

Those who fear—and contagiously protest their fears—that capital and labor will be drafted for national service should keep quiet. Their jitters tempt their potential enemies to scare the life out of them. And the only way to preclude the drafting of men, machines, or money is to volunteer them; for either their serving is essential to their survival, or the whole "emergency" is somebody's nightmare, in neither of which cases is anything to be gained by waiting in the slim hope that some sort of substatute for purpose or for performer will be found.

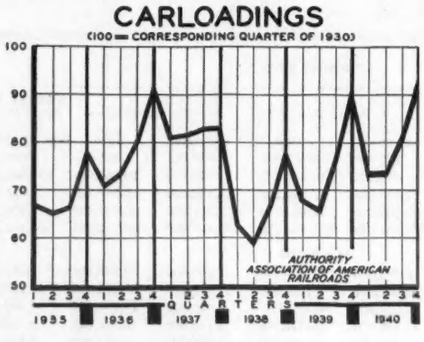
The chemical, oil, and drug industries are primarily contributors to the general industrial activity; because their biggest function is the providing of materials for the multitude of fabricatings. And even to the extent that they directly serve the ordinary or the emergent needs of the ultimate consumer, their situation depends largely on the general attitude and procedure. But, this dependence is not exclusive. In matters of price, in some of their divisions, they will do well to stay away from balloons which they have already tried out.

General Statistical Record

Data contributed to the Reporter's business survey or collated from a variety of relevant sources present the following comparative values of elemental factors in the general business situation during the fourth quarter of 1940; or for other periods or specific dates as designated; particulars for the ten divisions of the chemical, oil, and drug industries are given in the respective market commentaries farther below (the figures in the tabulation represent percentage changes from the fourth quarter of 1939 or from other comparable 1939 periods or dates as indicated):—

Production

	Percent
Industrial production	+ 6.7
Manufacturing industries	+ 8.6
Capital goods	+ 15.9
Automobiles	+ 24.7
Glass, plate	— 5.3
Iron and steel	+ 4.7
Steel barrels and drums	— 7.5
Lumber and products	+ 7.0
Nonferrous metals and products	+ 10.3

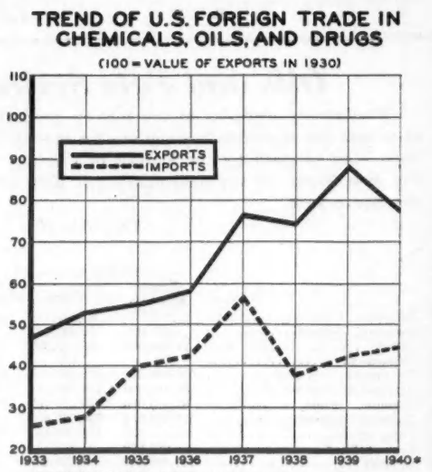

CARLOADINGS
(100 = CORRESPONDING QUARTER OF 1930)
100
90
80
70
60
50
AUTHORITY ASSOCIATION OF AMERICAN RAILROADS
1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4
QUARTERS
1935 1936 1937 1938 1939 1940

Car Loadings

	Number of cars			
	First quarter.	Second quarter.	Third quarter.	Fourth quarter.
1930..	11,269,184	11,931,392	11,953,125	10,561,378
1932..	7,335,790	6,592,030	6,864,872	7,367,260
1938..	7,158,227	7,038,776	7,948,796	8,322,745
1939..	7,594,505	7,748,617	9,082,545	9,677,092
1940..	8,164,834	8,741,561	9,679,432	9,767,782

Yearly (52 weeks) totals:—

1930	45,717,079
1931	37,151,249
1932	28,179,952
1933	29,220,052
1934	30,845,960
1935	31,504,134
1936	36,063,307
1937	37,992,928
1938	30,468,544
1939	34,102,759
1940	36,353,609



Foreign Trade in Chemicals, Drugs, Oils

	Exports.	Imports.
1930	$800,631,700	$479,635,000
1931	498,287,300	322,836,100
1932	368,655,200	199,138,300
1933	375,922,500	200,430,200
1934	413,472,400	227,433,600
1935	430,915,400	311,968,300
1936	463,234,000	333,519,400
1937	613,835,600	464,451,500
1938	602,391,600	308,521,200
1939	699,398,000	323,548,000
1940	625,926,000	356,572,700

FUMARIC ACID

$$HOOC-CH=CH-COOH$$

Molecular Weight——116.07

As PRODUCED by an entirely new process this acid is now available at a price range which should greatly extend its use as an industrial raw material. Development of this process has resulted in a product remarkably free from organic impurities. Fumaric acid is especially recommended because of its ease of handling; low corrosion rate; low volatility even at elevated temperatures with consequent freedom from obnoxious fumes.

Manufacturing Chemists

PFIZER QUALITY Est. 1849

CHAS. PFIZER & CO., INC.

81 Maiden Lane, New York, New York 444 West Grand Ave., Chicago, Illinois

Production

	Percent
Industrial production—Continued	
Manufacturing industries—Continued	
Consumer goods	+ 2.3
Chemicals, oils, drugs	+ 4.6
(Data for the several groups are in the respective market comments below)	
Alcohol	+ 9.7
Stocks (Dec. 31)	— 34.9
Denatured	+ 4.4
Stocks (Dec. 31)	+ 16.2
Ammonia (coke plants)	+ 6.1
Benzol (by-product coke plants)	+ 6.2
Carbon black (Texas)	— 6.8
Cellulose plastics	+ 1.7
Corn grind	— 2.7
Cottonseed oil, crude	+ 3.8
Stocks, both grades (Dec. 31)	— 13.7
Linseed oil	+ 15.7
Stocks, crushers' (Dec. 31)	+ 4.2
Margarin	+ 16.4
Methanol	— 1.1
Petroleum, crude	— 3.1
Fuel oils	+ 2.4
Stocks (Dec. 31)	+ 3.3
Gasoline	— 6.2
Stocks (Dec. 31)	+ 2.5
Soybean oil	00.0
Stocks, crushers' (Dec. 31)	+ 75.9
Sulphonated oils	— 8.7
Sulphuric acid (fertilizer mfrs.)	+ 6.1
Stocks (Dec. 31)	+ 49.9
Superphosphates	— 2.6
Stocks (Dec. 31)	+ 4.0
Coke	+ 6.6
Leather and products	— 4.7
Paper and products	— 6.7
Rubber goods	+ 1.6
Crude rubber consumption	+ 2.1
Textiles and products	+ 6.2
Cotton consumption	+ 9.7
Pyroxylin coatings	+ 0.8
Rayon and silk deliveries	— 3.6
Wool consumption	+ 15.4
Minerals production	— 2.5
Anthracite	— 2.4
Bituminous coal	— 9.2
Metals	+ 6.5
Electric energy production	+ 10.1

Building Construction

Building permits and construction	+ 55.9
Family dwelling units provided	+ 30.4
Portland cement production	+ 14.3
Portland cement shipments	+ 15.4
Prepared roofing shipments	— 7.5

Employment

Factory employment	+ 6.8
Capital goods industries	+ 14.2
Consumer goods industries	+ 0.4
Chemical, oil, and drug industries	+ 2.3
Factory payrolls	+ 13.9
Average weekly earnings	+ 6.0
Capital goods industries	+ 23.2
Average weekly earnings	+ 7.2
Consumer goods industries	+ 3.6
Average weekly earnings	+ 2.5
Chemical, oil, and drug industries	+ 6.1
Average weekly earnings	+ 2.0
Labor turnover	+ 7.1
Accessions	+ 11.3
Separations	+ 1.4

Sales

Manufacturers' sales	+ 13.4
Inventories (Dec. 31)	+ 11.2
Capital goods	+ 21.2
Inventories (Dec. 31)	+ 16.0
Consumer goods	+ 6.8
Inventories (Dec. 31)	+ 5.7
Chemicals, oils, drugs (volume)	+ 4.1
Chemicals, oils, drugs (value)	+ 2.6
Inventories (Dec. 31)	+ 2.1
Corporation earnings	+ 31.2
Paint, varnish, and lacquer	+ 6.7
Soaps	+ 1.0
Automobile sales, manufacturers	+ 31.0
Retail sales (new cars)	+ 25.6
Retail financing (new cars)	+ 41.2
Iron, steel, and products	+ 7.8
Paper and products	— 1.5
Rubber goods	+ 10.0
Tires and tubes shipments	+ 8.7
Steel barrels and drums shipments	— 7.0
Textiles	+ 10.6
Wholesale sales	+ 10.7
Wholesalers inventories (Dec. 31)	+ 4.0
Chemicals	+ 4.3
Wholesale chemical inventories (Dec. 31)	— 2.0
Drugs and sundries	+ 8.0
Wholesale drug inventories (Dec. 31)	— 2.0
Paints and varnishes	+ 9.0
Wholesale paint inventories (Dec. 31)	+ 5.0
Petroleum	+ 5.3
Wholesale petroleum inventories (Dec. 31)	— 15.0
Oil burner shipments	+ 19.9
Retail sales	+ 8.3
Chain stores	+ 8.2
Drugs	+ 6.2
Inventories (Dec. 31)	+ 4.0
Individual retailers	+ 8.9
Drugs	+ 5.7
Filling stations	+ 0.8
Department and variety stores	+ 3.8
Mail-order sales	+ 13.4
Rural general merchandise sales	+ 7.3
Fertilizer tag sales	— 2.7

Prices

Chemicals, oils, drugs prices (Dec. 27)	+ 9.9
Change during fourth quarter	+ 7.3
General wholesale prices (Dec. 28)	+ 0.6
Change during fourth quarter	+ 0.7
Cost of living	+ 0.5
Retail cost of food	+ 2.4

Prices

	Percent
Individual incomes (including benefits)	+ 6.7
Pay of employees	+ 7.7
Dividends and interest	+ 4.3
Bank debits (Dec. 28)	+ 8.7
Business loans (Dec. 28)	+ 13.9
Stock market loans (Dec. 28)	— 17.2
Farm income (marketing and bonuses)	+ 6.5
Prices received by farmers	+ 2.1
Prices paid by farmers (all commodities)	00.0

Transportation

Railroad carloadings	+ 3.0
Truck freighting	+ 14.4
Railroad operating income	+ 7.9

Foreign Trade

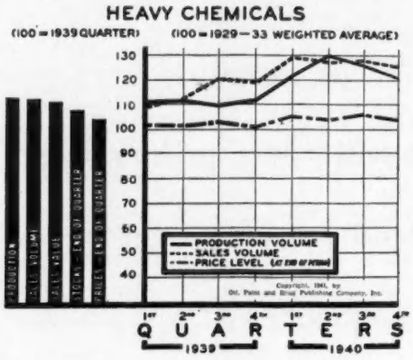
Exports, general (Jan.-Dec.)	+ 26.0
Chemicals, oils, drugs (Jan.-Dec.)	— 10.5
Imports for consumption (Jan.-Dec.)	+ 11.6
Chemicals, oils, drugs (Jan.-Dec.)	+ 12.1

Records of Chemical Groups

From individual data on operations, conditions, and sentiment in the chemical, oil, and drug industries submitted for analysis in the REPORTER'S nationwide survey for the fourth quarter of 1940 the following pictures of the several groups have been constructed:—

Heavy Chemicals

Defense demands were beginning to reach out into the heavy chemicals field in the last quarter of 1940. For this reason and in continuation of the efforts to fill the lack of previously imported materials, production was increased. Its relative volume, as well as that of sales, was not so large as that in the preceding quarter because the last



quarter of 1939 had brought such an extent of expansion that there was a big difference in the bases of the two quarters' comparison. The volume in both instances—production and sales—was gratifying and there was a lessening of the productive efforts earlier in evidence; so that the excess of inventories over 1939 levels was cut substantially during the quarter. Toward the end of the year producers in certain lines were beginning to be troubled over the outlook for getting raw materials from abroad because available shipping was steadily growing less. This contingency was a spur in other sections to greater productive activity, and it increased research in general.

Data contributed to the REPORTER'S survey for the fourth quarter indicate the following changes from the corresponding 1939 periods:—

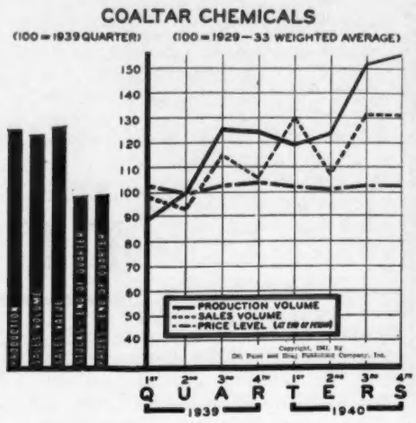
	Percent.
Production, year	+ 13.0
Fourth quarter	+ 8.2
Sales volume, year	+ 12.2
Fourth quarter	+ 5.8
Sales value, year	+ 10.6
Fourth quarter	+ 6.6
Stocks on hand (Dec. 31)	+ 8.8
Prices (Dec. 31)	+ 4.1
Change since Sept. 30, 1940	+ 1.3
Exports (1940—$120,534,222)	+ 11.5
Imports (1940—$32,429,486)	+ 8.4

Credit conditions—Slightly better.
Outlook—Brighter.

Coaltar Chemicals

Steadiness was the chief characteristic of the coaltar chemicals business during the fourth quarter of 1940—steadiness at a greatly increased rate of production and selling which had been reached early in the year. This industry was getting a big share of defense business, both national preparatory and international necessary. It was finding new markets in munitions and bigger markets in its regular fields, especially the textile industry which was getting big defense orders. Production had to be heavy also because foreign sources were largely cut off, although certain goods of comparatively high value were coming in from abroad by devious routes. World trade in the opposite direction (exports) was constantly increasing, most of the commodities having a rather direct application in war. The movement to bring petroleum hydrocarbons into the classifications heretofore exclusive with coaltar increased, albeit there was not in sight a possibility of lower production costs which would be useful in maintaining the sale of the double supply. New medicinals and bigger demand for substitutes for various natural materials kept the industry pleased.

Data contributed to the REPORTER'S survey for



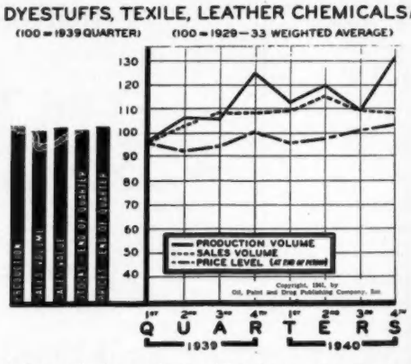
the fourth quarter indicate the following changes from the corresponding 1939 periods:—

	Period.
Production, year	+ 24.8
Fourth quarter	+ 24.7
Sales volume, year	+ 22.8
Fourth quarter	+ 23.0
Sales value, year	+ 26.3
Fourth quarter	+ 24.8
Stocks on hand (Dec. 31)	— 1.3
Prices (Dec. 31)	— 0.5
Change since Sept. 30, 1940	— 0.6
Exports (1940—$28,448,691)	+ 94.7
Imports (1940—$8,947,537)	— 52.4

Credit conditions—Slightly better.
Outlook—Brighter.

Dyestuffs, Textile and Leather Chemicals

Having come up with defense demands late in the third quarter, the textile and leather industries were noticeably increasing their consumption of technical and processing materials during the last quarter of 1940. Their activities were a bit overanticipated by producers of such materials, although these producers found some imported nat-



ural agents increasingly difficult to get. The inorganic chemicals of these consuming industries were being produced adequately by domestic concerns, so there was no more of the anxiety of the early part of the year. The consuming industries were getting along well in spite of curtailed supplies of imported materials, some of their satisfaction being derived from the availability of synthetic substitutes. It was recognized that shipping from customary supplying parts of the world was petering out, and the search for other materials was well along. It was chiefly because of this that sales of these customary members of this group of materials were shrunken toward the yearend.

Data contributed to the REPORTER'S survey for the fourth quarter indicate the following changes from the corresponding 1939 periods:—

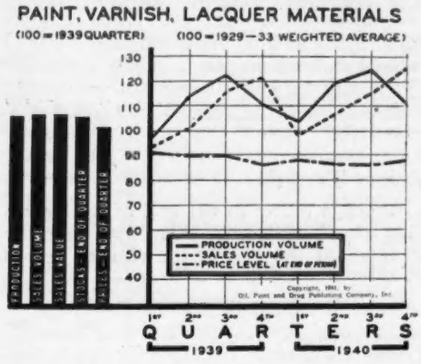
	Period.
Production, year	+ 4.2
Fourth quarter	+ 5.2
Sales volume, year	+ 1.4
Fourth quarter	— 0.5
Sales value, year	+ 3.0
Fourth quarter	— 0.9
Stocks on hand (Dec. 31)	+ 1.3
Prices (Dec. 31)	+ 3.6
Change since Sept. 30, 1940	+ 6.4
Exports (1940—$13,195,948)	+ 52.5
Imports (1940—$14,129,137)	— 7.4

Credit conditions—Better.
Outlook—Brighter.

Paint, Varnish, and Lacquer Materials

Chemical and oil and other materials used as components of paints and related coatings go into the making of many other products; so they are variously influenced by industrial trends. In the fourth quarter of 1940 they reflected certain others more than they did the situation in the paint industry. In similar manner the influence of the latter industry was of much weight in other fields, for example, fats and oils and petroleum solvents.

Thus is the universal interlocking and interdependence of industries manifested. There was nothing startling in the paint industry, which was showing a steady, although slow, expansion. The relatively light sales of materials was indicative, as far as that industry was concerned, of a tendency to feel about first with reference to 1941.



The defense program is fraught with possibilities of opposite effects on paints and painting. For one thing, the paint industry could get along with smaller supplies of imported materials—even tung oil—and it is gearing itself to that end.

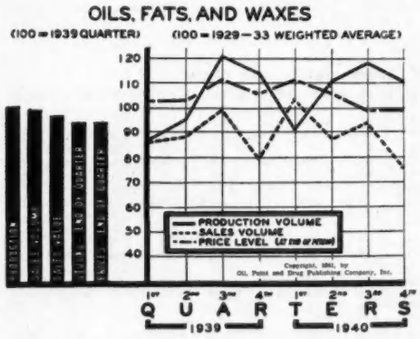
Data contributed to the REPORTER'S survey for the fourth quarter indicate the following changes from the corresponding 1939 periods:—

	Period.
Production, year	+ 5.4
Fourth quarter	+ 0.4
Sales volume, year	+ 6.1
Fourth quarter	+ 3.4
Sales value, year	+ 6.5
Fourth quarter	+ 3.1
Stocks on hand (Dec. 31)	+ 5.3
Prices (Dec. 31)	+ 0.9
Change since Sept. 30, 1940	+ 0.9
Exports (1940—$52,637,900)	— 17.6
Imports (1940—$35,579,863)	+ 27.8

Credit conditions—Slightly better.
Outlook—Brighter.

Oils, Fats, and Waxes

Business in oils, fats, and waxes was shrinking during most of the fourth quarter of 1940 and showed negatively in comparison with 1939 in all respects, even in lower prices, although the sag in that respect was lessened during the period. There were two reasons for the shrinkage. One was the reduction of supplies of important imported materials which had resulted in anticipatory buying earlier in the year; the other was the loss of substantial markets in other countries, exports having been greatly reduced during the year in both


OILS, FATS, AND WAXES
(100 = 1939 QUARTER)
(100 = 1929–33 WEIGHTED AVERAGE)
PRODUCTION VOLUME
SALES VOLUME
PRICE LEVEL (AT END OF PERIOD)
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1ST 2ND 3RD 4TH 1ST 2ND 3RD 4TH
QUARTERS
1939
1940

edible and technical materials. Imports showed a slight increase, but the talk was that this trend would be reversed as the lack of ocean transportation increased, although it was felt that Latin America could make up for the cutting off of Far Eastern supplies—if profit-hunger were circumvented. Newer developments through research were putting domestic producers in position to meet the emergencies caused by curtailment of supplies from abroad. So, the industry as a whole expected the nearby future to be bright but was dubious about conditions a year or so hence.

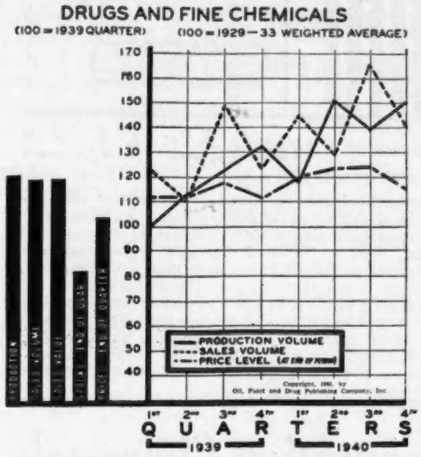
Data contributed to the REPORTER'S survey for the fourth quarter indicate the following changes from the corresponding 1939 periods:—

	Period.
Production, year	+ 1.0
Fourth quarter	— 3.2
Sales volume, year	— 0.7
Fourth quarter	— 4.3
Sales value, year	— 3.0
Fourth quarter	— 10.1
Stocks on hand (Dec. 31)	— 6.5
Prices (Dec. 31)	— 6.1
Change since Sept. 30, 1940	+ 5.3
Exports (1940—$31,301,966)	— 38.5
Imports (1940—$97,224,827)	+ 3.0

Credit conditions—Slightly better.
Outlook—Brighter.

Drugs and Fine Chemicals

Both pharmaceutically and technically there was a big and growing demand for fine chemicals during the fourth quarter of 1940. Threats of disease epidemics were stronger than in several years past, and the occurrence of such scourges was at times alarming. The development of new medicaments helped also to increase the volume of business done in pharmaceutical chemicals. On the technical side many fine chemicals, especially in the category of solvents, were finding increasing demands from makers of munitions, and many related materials were being helped to volumes by the demand for synthetic aromatics. Promotion of virtually new solvents added more than a little to the aggregate volume and was responsible for the comparatively low total of the quarter's sales' value. It is to be noted that the upgoing price tendency of the fine chemicals group was re-


DRUGS AND FINE CHEMICALS
(100 = 1939 QUARTER)
(100 = 1929–33 WEIGHTED AVERAGE)
PRODUCTION VOLUME
SALES VOLUME
PRICE LEVEL (AT END OF PERIOD)
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1ST 2ND 3RD 4TH 1ST 2ND 3RD 4TH
QUARTERS
1939
1940

strained during the quarter. Foreign trade in this division shows a strange aspect for 1940 as a whole, having become heavily lopsided on the import side.

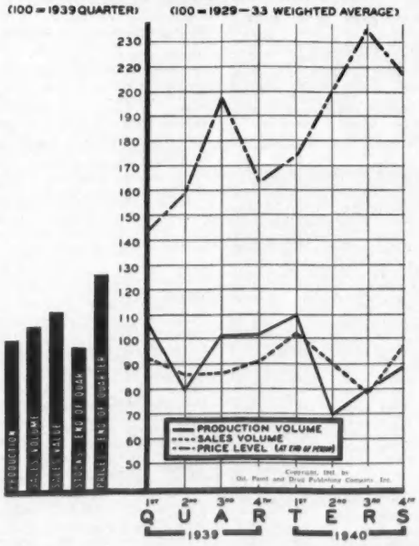
Data contributed to the REPORTER'S survey for the fourth quarter indicate the following changes from the corresponding 1939 periods:—

	Period.
Production, year	+ 20.2
Fourth quarter	+ 14.2
Sales volume, year	+ 18.6
Fourth quarter	+ 13.9
Sales value, year	+ 19.6
Fourth quarter	+ 10.6
Stocks on hand (Dec. 31)	— 19.2
Prices (Dec. 31)	+ 4.3
Change since Sept. 30, 1940	0.0
Exports (1940—$36,423,921)	— 16.3
Imports (1940—$19,572,506)	+ 85.8

Credit conditions—Slightly better.
Outlook—Brighter.

Botanical Drugs, Spices, Gums

Domestic drug gathering diminished steadily last year and was off noticeably in the last quarter; it was expected to continue in the same direction because of the draft and of defense employment. Domestic cultivation is being stimulated as an occupation for women and children. Imports are


BOTANICAL DRUGS, SPICES, GUMS
(100 = 1939 QUARTER)
(100 = 1929–33 WEIGHTED AVERAGE)
PRODUCTION VOLUME
SALES VOLUME
PRICE LEVEL (AT END OF PERIOD)
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1ST 2ND 3RD 4TH 1ST 2ND 3RD 4TH
QUARTERS
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expected to be curtailed still more as the inadequacy of available shipping becomes greater. Chemistry is making greater inroads upon the domain of natural drugs and aromatics because the supply of the latter is small and their prices are high. Nobody who has kept in touch would be astonished to hear that cinchona derivatives had been satisfactorily replaced with a synthetic; although some would be disappointed because there is a goodly reserve supply of such material on hand. The same is true with respect to opiates. Several botanical drugs of prime importance a few years ago are already regarded as barely necessary because of substituted synthetics. But, there are botanical drugs, just as there are condiments and aromatics, which must be provided. Their cost might make their cultivation by even gentlemen farmers practicable if conditions abroad and intervening get worse.

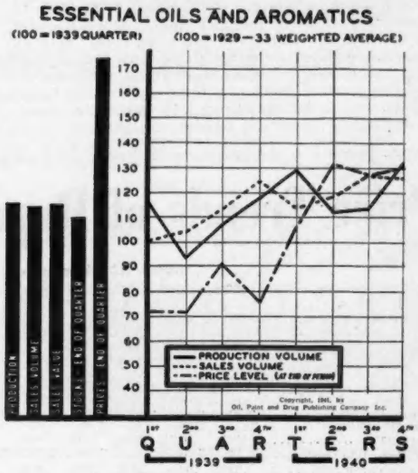
Data contributed to the REPORTER'S survey for the fourth quarter indicate the following changes from the corresponding 1939 periods:—

	Period.
Production, year	— 0.3
Fourth quarter	— 2.0
Sales volume, year	+ 6.9
Fourth quarter	+ 7.3
Sales value, year	+ 11.3
Fourth quarter	+ 13.3
Stocks on hand (Dec. 31)	— 2.5
Prices (Dec. 31)	+ 26.5
Change since Sept. 30, 1940	+ 19.5
Exports (1940—$5,934,927)	+ 74.4
Imports (1940—$38,377,373)	+ 1.9

Credit conditions—Unchanged.
Outlook—Brighter.

Essential Oils, Aromatic Chemicals

Natural aromatics, so largely supplied by other countries, continued to grow scarcer during the fourth quarter of 1940; and their prices consequently were heavily advanced again. The call for synthetic flavors and odors was proportion-


ESSENTIAL OILS AND AROMATICS
(100 = 1939 QUARTER)
(100 = 1929–33 WEIGHTED AVERAGE)
PRODUCTION VOLUME
SALES VOLUME
PRICE LEVEL (AT END OF PERIOD)
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QUARTERS
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ately increased because demand had become quite strong and shifted, rather than ceased, when the pressure of cost became effective. Domestic oils were finding bigger markets abroad, and this trend was expected to continue unless outgoing shipping began also to feel the effects of activities which are steadily curtailing the coming in of vessels from customary ports of supply. There was some thought that possible developments might result in a further change in buying habits, a change to different odors or flavors instead of to different materials of the same or similar taste or smell.

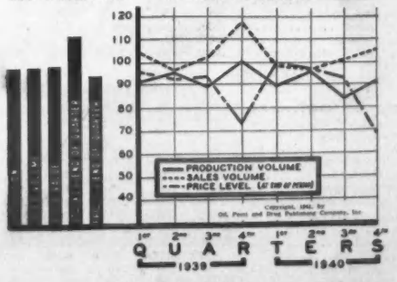
Data contributed to the REPORTER'S survey for the fourth quarter indicate the following changes from the corresponding 1939 periods:—

	Period.
Production, year	+ 16.8
Fourth quarter	+ 12.8
Sales volume, year	+ 14.8
Fourth quarter	+ 1.9
Sales value, year	+ 15.1
Fourth quarter	+ 3.4
Stocks on hand (Dec. 31)	+ 9.1
Prices (Dec. 31)	+ 72.9
Change since Sept. 30, 1940	+ 31.6
Exports (1940—$4,571,011)	+ 20.6
Imports (1940—$8,280,897)	— 1.7

Credit conditions—Slightly better.
Outlook—Brighter.

Petroleum Solvents, Lubricants, Fuels

Loss of export markets has added a new trouble for the petroleum industry since early in the current war abroad. This condition was aggravated during the last quarter of 1940, and as is customary this trouble brought about severe price


PETROLEUM SOLVENTS, LUBRICANTS, FUELS
(100 = 1939 QUARTER)
(100 = 1929–33 WEIGHTED AVERAGE)
PRODUCTION VOLUME
SALES VOLUME
PRICE LEVEL (AT END OF PERIOD)
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1ST 2ND 3RD 4TH 1ST 2ND 3RD 4TH
QUARTERS
1939
1940

competition in all lines of petroleum derivatives marketed as industrial materials. There was an opposite price trend in some other divisions of the industry, and there was some increasing of the industry's business along its new lines of petroleum chemicals. This in large part was a favor-

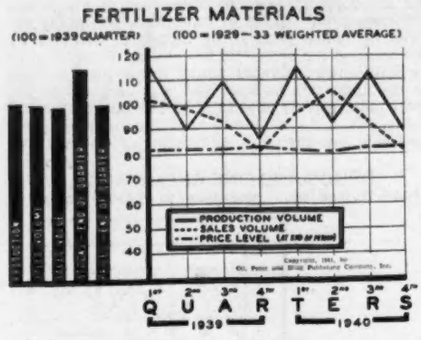
able result of world conditions; so that these influences were working both ways. The industry itself was working mainly in its customary way of overproducing; but it got a bit more in line with its possibilities toward the end of the year. Nonetheless it finished 1940 with quite otherwise than a shortage of stocks on hand. There was not any too much optimism in its yearend views; but that is customary and the result is very seldom a reformation of production habits.

Data contributed to the REPORTER'S survey for the fourth quarter indicate the following changes from the corresponding 1939 periods:—

	Period.
Production, year	— 2.9
Fourth quarter	— 17.3
Sales volume, year	— 2.7
Fourth quarter	— 10.5
Sales value, year	— 1.7
Fourth quarter	— 26.0
Stocks on hand (Dec. 31)	+ 11.2
Prices (Dec. 31)	— 6.9
Change since Sept. 30, 1940	+ 7.8
Exports (1940—$312,635,357)	— 18.9
Imports (1940—$69,578,018)	+ 61.9
Credit conditions—Unchanged.	
Outlook—Slightly brighter.	

Fertilizer Materials

The complicated conditions and concomitants of governmentally petted agriculture continued to puzzle the fertilizer industry during the last quarter of 1940; although there was a bit better activity than had been experienced previously in the year. The ancient bogeyman of credits was again about, and there was a feeling in some places that farmers who were being financed by the government were getting somewhat careless about their commercial obligations. Credit was being curtailed as a result. All this quite naturally was reflected in trade in fertilizer materials, although a sizeable expansion of export sales helped to make things better. The cutting off of important foreign



sources of supplies was still without effect on prices, domestic producers being mindful of the promptness with which fertilizer prices can reach the point of diminishing returns because many farmers still look upon more than a limited application of plantfood as something of a luxury. The industry kept up its good work of teaching farmers to know better—and kept one eye on the always-evident intention of government to expand its helpfulness to agriculture even to the extent of giving it fertilizer.

Data contributed to the REPORTER'S survey for the fourth quarter indicate the following changes from the corresponding 1939 periods:—

	Period.
Production, year	+ 1.7
Fourth quarter	+ 3.1
Sales volume, year	+ 0.1
Fourth quarter	+ 1.3
Sales value, year	— 0.3
Fourth quarter	+ 0.7
Stocks on hand (Dec. 31)	+ 14.7
Prices (Dec. 31)	+ 0.6
Change since Sept. 30, 1940	+ 0.6
Exports (1940—$20,242,036)	+ 18.0
Imports (1940—$32,453,038)	— 16.0
Credit conditions—Unchanged.	
Outlook—Unchanged.	

Price Trends

Average prices at the end of the fourth quarter of 1940 and 1939, with relation to those at the end of the similar period in 1939, compared as follows:—

(100 = Prices at December 31, 1938)

	1939.	1940.
Heavy chemicals	100.9	105.0
Coaltar chemicals	101.3	100.8
Dyestuffs, textile, leather chemicals	101.0	104.6
Paint, varnish, lacquer materials	95.9	96.8
Oils, fats, waxes	105.0	98.6
Drugs and fine chemicals	107.0	111.6
Botanical drugs, gums, spices	154.0	194.8
Essential oils, aromatic chemicals	134.9	231.5
Petroleum solvents, lubricants, fuels	101.8	94.8
Fertilizer materials	101.6	102.2
Average of all these markets	110.3	124.1

Price Trends of Representative Chemicals, Oils, Drugs: 1936-40

Industrial Chemicals

	1936. H	1936. L.	1937. H.	1937. L.	1938. H	1938. L.	1939. H	1939. L.	1940. H.	1940. L.
Acid, acetic, 28%	$2.45	$2.45	$2.33	$2.28	$2.23	$2.23	$2.23	$2.23	$2.33	$2.33
Boric, tech, gran	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00
Chromic	.14¾	.14¾	.15¼	.14¾	.15¼	.15¼	.15¼	.15¼	.15¼	.15¼
Sulphuric, 66 deg	15.50	15.50	16.50	15.50	16.50	16.50	16.50	16.50	16.50	16.50
Alum, ammonia	2.75	2.75	3.00	2.75	3.15	3.15	3.50	3.15	3.50	3.50
Alumina sul'ate, com'l.	1.35	1.35	1.35	1.35	1.35	1.15	1.15	1.15	1.15	1.15
Ammonia, anhyd	.16	.16	.16	.16	.16	.16	.16	.16	.16	.16
Bleaching powder	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Calcium acetate	2.10	2.10	2.25	1.65	1.65	1.65	1.90	1.65	1.90	1.90
Arsenate	.06½	.06	.06¾	.06½	.06¾	.06¾	.06¾	.06¾	.06¾	.06½
Chlorine, liq., tech	2.15	2.15	2.15	2.15	2.15	2.00	2.00	1.75	1.75	1.75
Potash carbonate	.06¾	.06½	.06½	.06½	.06¾	.06½	.06¾	.06½	.06¼	.06½
Caustic	.07	.06¾	.07	.06¾	.07	.07	.07	.07	.07	.07
Soda ash, 58% light	1.05	1.05	1.05	.90	1.10	1.10	1.10	1.10	1.10	1.10
Caustic, elect	2.55	2.55	2.55	2.30	2.70	2.70	2.70	2.70	2.70	2.70
Phosphate, tri	2.10	1.75	2.00	1.75	2.00	2.00	2.25	2.00	2.25	2.25
Silicofluoride, dom	.07	.04½	.06½	.05¾	.05¾	.04½	.04½	.04	No Price	
Sulphate, anhyd	1.45	1.15	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45

Coaltar Chemicals

Anilin oil	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15
Betanaphthol	.24	.24	.23	.23	.23	.23	.23	.23	.23	.23
Benzol	.18	.16	.16	.16	.16	.16	.16	.16	.16	.14
Creosote oil, crude	.13	.12½	.13¼	.13	.13¼	.13½	.13	.13¼	.13	.13
Cresylic acid	.73	.51	.80	.72	.89	.63	.68	.49	.68	.68
Naphthalene, crude	4.00	2.50	3.00	2.00	2.35	2.25	2.25	2.25	2.25	2.25
Phenol	.14¼	.13¼	.14½	.13¼	.14½	.14½	.14½	.13	.13	.12
Phthalic, anhydride	.15¼	.15½	.15¼	.14½	.14¼	.14½	.14¼	.14¼	.14¼	.14½
Solvent naphtha	.30	.30	.30	.30	.30	.26	.27	.26	.27	.27
Toluol	.30	.30	.30	.30	.30	.22	.25	.22	.27	.25
Xylol	.30	.30	.30	.30	.30	.26	.27	.26	.27	.26

Dyestuffs, Textile, Leather Chemicals

Cochineal	$0.32	$0.32	$0.35	$0.32	$0.35	$0.35	$0.37	$0.35	$0.37	$0.37
Cornstarch	4.19	3.90	4.33	2.63	2.65	2.50	2.75	2.50	3.00	2.90
Egg yolk	.54	.49	.68	.52	.67	.62	.67	.60	.60	.52
Fustic, ext., liq	.08½	.08¼	.09¼	.08¼	.09½	.09¼	.10½	.09¼	.09½	.09¼
Logwood, ext., liq	.08¼	.08¼	.09½	.08¼	.09½	.09¼	.10¼	.09½	.09¼	.09¼
Myrobalans	24.50	21.50	31.00	25.50	30.00	24.00	30.00	24.00	40.00	34.00
Potash bichromate	.08¾	.08½	.08¾	.08¾	.08¾	.08¾	.08¾	.08¾	.08¾	.08¾
Soda bichromate	.06¾	.06½	.06¾	.06¾	.06¾	.06¾	.06¾	.06¾	.06¾	.06¾
Sumac, grd	65.00	52.00	65.00	59.00	68.00	63.00	78.00	65.00	No Price	
Valonia	64.50	46.00	49.00	46.00	50.00	45.00	57.00	45.00	No Price	

Paint, Varnish and Lacquer Materials

Acetone	$0.11	$0.06	$0.06	$0.06	$0.05¾	$0.05¾	$0.07¼	$0.05¾	$0.07½	$0.06½
Barytes, dom	22.85	22.85	22.85	22.85	22.85	22.85	22.85	22.85	22.85	22.85
Butyl alcohol	.11	.08½	.09	.09	.09	.08½	.09¼	.07½	.09¼	.09
Carbon, black, uncomp.	.0505	.0505	.0505	.0355	.03¾	.03¾	.04¾	.03¾	.03075	.0255
Chrome yellow	.13	.11	.15¼	.13	.14¼	.14½	.14¼	.13½	.13¼	.13¼
Copal, Manila, W.S.	.09¾	.08½	.08¾	.08½	.08¾	.07¾	.12¼	.07¾	.12¾	.10
Dammar, Batavia, A/E	.14½	.12¾	.17¼	.14½	.17¼	.12¼	.13¾	.13¾	.13¾	.12¾
Ester gum	.10	.07¾	.11¼	.09	.09	.08¾	.09¾	.08	.07	.06¾
Film scrap, w.w	.15	.15	.15	.15	.16	.12	.13½	.11½	.15	.13½
Iron blues	.37	.36	.36	.36	.36	.36	.36	.33	.33	.33
Nitrocellulose a/s	.29	.28	.28	.28	.28	.28	.28	.28	.28	.28
Ocher, Fr., light	.03	.02¼	.02¾	.02¼	.02¾	.02¼	.02¾	.02¼	.02¼	.02¾
Red lead, 95%	.09	.07½	.10¾	.07½	.08	.07¼	.02¼	.0835	.0830	.07¾
Rosin	11.05	5.50	11.75	6.05	7.25	5.05	6.60	5.35	6.70	1.97
Shellac, bone dry	.23½	.17½	.21	.17	.19	.16½	.25	.18	.26	.25
T. N.	.17	.13½	.14	.12	.12	.10½	.19	.19½	.19	.13
Titanium, white	.06	.05¾	.05¾	.05¾	.05¾	.05¾	.06½	.05¼	.05¼	.05¼
Turpentine	.50¾	.40¾	.48¾	.31½	.36¼	.25½	.34½	.28½	.45	.32
White lead	.07¼	.06½	.09	.06½	.07	.06	.07¼	.07	.07¼	.07
Zinc oxide, lead-free	.05¼	.05	.06¼	.05¼	.06¼	.06¼	.06¼	.06½	.07¾	.06½

Oils, Fats, and Waxes

Beeswax, Afric	$0.26	$0.23	$0.29½	$0.25	$0.25	$0.19	$0.30	$0.19	$0.30	$0.23
Candelilla wax	.16	.15	.15½	.13	.15¼	.13½	.18½	.15¼	.19	.18
Carnauba wax, 3, chalky	.36	.33½	.38¾	.33	.33½	.29	.45	.27½	.44	.45
Chinawood oil	.1360	.1260	.2400	.1180	.1600	.0920	.26	.14	.26	.21
Coconut oil	.09¼	.03¾	.10½	.03¾	.04¼	.03	.04½	.02½	.03¾	.03¾
Corn oil, crude	.10¼	.08	.10¼	.06½	.08	.06¼	.07	.04¾	.06¾	.06¼
Cottonseed oil, crude	.1000	.0750	.1050	.0587½	.0750	.0587½	.06¾	.04¼	.06¼	.04½
Japan wax	.09¾	.08¼	.11	.09¼	.10¾	.09¼	.17½	.09¾	.18	.15
Lard	13.70	10.25	14.15	8.80	9.65	7.40	8.75	5.75	7.05	4.85
Lard oil	16.25	12.25	16.75	12.75	12.75	10.25	10.75	8.50	.10	.07¼
Linseed oil	.0970	.0860	.1070	.0960	.0970	.0750	.1020	.0780	.1020	.0770
Menhaden oil	.36	.28	.45	.34	.40	.27	.36	.21	.36	.21
Neatsfoot oil	16.75	16.00	18.25	17.00	17.25	15.25	.20¼	.14¾	.19¼	.15¼
Olive oil	1.60	.70	1.65	1.15	1.15	.86	1.35	.80	2.35	.93
Perilla oil	.11	.08	.13¼	.10½	.11	.09	.1800	.0890	.21	.15½
Red oil	.85¾	.07	.10¾	.08¾	.08¾	.06½	.08½	.06½	.08	.05¾
Sardine oil	.46	.28	.54½	.36	.46½	.28	.38	.22	.45	.24½
Soybean oil	.1050	.0700	.1080	.0800	.07	.05¾	.06¾	.04½	.06½	.04½
Stearic acid	.11½	.08½	.12¾	.11	.11	.10	.12¾	.10	.12	.09
Tallow	.08¾	.04½	.10¼	.05¾	.06¾	.04½	.06¾	.04¾	.05¾	.03¾

Drugs and Fine Chemicals

	1936. H	1936. L.	1937. H	1937. L.	1938. H.	1938. L.	1939. H.	1939. L.	1940. H.	1940. L.
Agar agar, 1	$0.90	$0.67	$1.15	$0.72	$1.05	$0.85	$1.50	$0.90	$1.50	$1.35
Alcohol, S.D. 1	.31	.28	.27	.26	.27	.22	.22½	.19½	.24½	.22½
Aloin	1.60	1.50	2.00	1.50	2.65	2.00	3.25	2.65	3.25	3.25
Bismuth subcarbonate.	1.40	1.40	1.40	1.23	1.53	1.22	1.73	1.52	1.73	1.73
Metal	1.00	1.00	1.00	1.00	1.05	1.05	1.25	1.05	1.25	1.25
Cadmium metal	1.05	.85	1.60	1.05	1.60	.85	.85	.55	.85	.80
Calomel	1.40	.101	1.59	.140	1.50	1.18	2.57	1.44	2.95	2.45
Castor oil	.10	.10	.10	.10	.10	.09	.12	.08	.12½	.09½
Corn syrup, 42°	4.10	3.05	4.36	3.11	3.12	2.89	3.27	2.92	3.47	3.02
Corrosive sublimate, cryst.	1.05	.76	1.30	1.20	1.30	1.05	2.14	1.26	2.39	2.04
Cream of tartar	.17¼	.15	.19¾	.15	.22¾	.19¾	.25¾	.22¾	.38¼	.23¼
Epsom salt	1.90	1.90	2.00	1.90	1.90	1.90	1.90	1.90	1.90	1.90
Iodine, resubl	1.65	1.50	1.50	1.50	1.75	1.50	2.00	1.75	2.00	1.75
Iron-ammonia citrate, b., s	.49	.37	.37	.37	.37	.37	.37	.37	.37	.37
Menthol	3.75	3.10	3.40	3.10	3.25	3.10	3.35	2.95	3.65	3.40
Quicksilver, domestic	94.00	74.00	97.00	81.00	82.00	72.00	160.00	77.00	200.00	154.00
Quinine	.53	.51	.53	.53	.54	.53	.64	.54	*.67	.64
Santonin	43.00	30.00	43.00	25.00	25.00	21.00	55.00	19.00	150.00	130.00
Silver nitrate	.33¼	.32¾	.33¾	.32¼	.32¾	.31½	.31½	.28¾	.26¾	.26¾
Thymol	1.65	1.55	1.65	1.55	1.65	1.40	1.50	1.40	1.50	1.40
Vanillin, ex eugenol	3.90	3.75	3.65	3.10	3.10	2.10	2.60	2.10	2.60	2.60

* Plus 7c. per oz. surcharge.

Botanical Drugs, Spices, and Gums

Aletris root	$0.30	$0.29	$0.45	$0.30	$0.45	$0.38	$0.40	$0.37	$0.55	$0.50
Arnica flowers	.33	.25	.35	.27	.33	.28	.75	.27	2.00	.38
Belladonna leaves	.14	.14	.14	.14	.14	.12½	.29	.12	2.00	.44
Cascara sagrada bark	.12	.11	.14½	.11¾	.11¾	.09½	.14	.09	.16	.14
Dandelion root	.23	.18	.23	.19	.19	.13	.22	.13	.80	.35
Digitalis leaves	.26	.23	.65	.24	.65	.38	.40	.35	.35	.35
Ergot, U.S.P	2.25	1.35	2.05	1.50	1.65	1.25	3.50	1.25	3.85	1.70
Golden seal root	2.85	2.00	3.55	2.85	3.65	2.75	3.60	2.75	3.85	2.75
Gum arabic, sorts	.10¼	.09	.14½	.09¾	.11¾	.09½	.24	.09½	.17½	.08½
Henbane leaves	.22	.20	.21	.19	.19	.15	.65	.14	1.75	.50
Lavender flowers, select	1.05	.63	.60	.50	.50	.40	1.30	.40	.70	.48
Lycopodium	1.25	.80	1.40	.95	1.30	.93	4.00	.92	4.75	3.50
Myrrh	.40	.35	.45	.40	.36	.35	.70	.35	.60	.45
Papain	1.75	.95	2.75	.95	2.75	1.08	2.00	1.10	1.60	1.40
Rhubarb root	.35	.30	.75	.32	.65	.30	.55	.35	.60	.50
Saffron, Spanish	18.00	11.50	23.00	14.00	30.00	23.00	50.00	29.00	38.00	23.00
Senega root	.36	.33	.60	.36	.70	.50	.85	.56	.90	.67
Stramonium leaves	.11	.07	.11	.11	.13½	.10	.17	.13	.45	.17
Tonka beans, Angost	2.50	2.50	2.50	2.50	2.50	2.40	2.40	2.85	2.35	2.35
Valerian root	.13½	.11	.11	.09	.12	.08½	.30	.09¼	.95	.27
Vanilla beans, Bourb	3.75	2.40	4.75	3.25	4.40	3.35	6.50	4.75	9.00	5.75
Mexican	4.00	3.00	4.75	4.00	4.75	4.25	6.50	5.00	9.25	6.00

Essential Oils

Anise	$0.95	$0.50	$1.35	$0.70	$1.25	$0.70	$0.85	$0.65	$1.05	$0.68
Bergamot	2.95	1.60	4.00	2.95	4.00	3.65	4.50	3.65	12.00	4.00
Cassia	1.10	.90	1.25	.90	1.20	.84	1.30	.85	1.35	1.20
Citronella, Ceyl	.29	.18	.42	.32	.42	.32	.36	.32	.46	.30
Clove	1.05	.88	1.25	1.05	1.07	.95	1.55	.95	1.33	1.10
Geranium, Alg	5.25	4.50	4.85	4.00	4.00	2.85	3.25	2.65	5.00	2.50
Lavender, 30-32%	2.75	2.55	2.25	2.25	2.25	2.00	3.75	2.00	5.00	2.50
Lemon, Calif	3.00	1.00	3.50	2.60	2.50	2.50	3.00	2.00	3.25	3.00
Italian	2.85	1.00	3.75	2.60	4.00	3.00	3.50	2.60	4.75	3.20
Lime, dist	5.75	5.43	6.10	5.40	5.40	3.35	4.15	2.50	4.75	3.60
Orange, Calif	3.25	2.25	3.25	1.75	1.75	.65	1.50	.75	2.00	1.50
Italian	2.75	1.90	4.00	2.25	2.25	2.25	3.25	1.90	8.00	3.00
Peppermint, redist	2.55	2.10	2.80	1.75	2.35	2.15	2.75	2.20	3.10	2.25
Spearmint	2.00	1.40	1.90	1.65	1.70	1.60	2.00	1.70	2.50	2.10
Thyme, red	.85	.68	.85	.69	.85	.69	1.35	.85	1.35	.90
White	.80	.80	.85	.78	.85	.78	1.75	.85	1.75	.95
Wormwood	3.00	2.25	3.00	2.00	3.25	2.65	5.35	2.65	6.00	4.50

Petroleum Solvents, Lubricants, Fuels

Cylinder stock oil, bright, 600 fire, Pa	$0.25	$0.23	$0.29	$0.20	$0.20	$0.18	$0.17½	$0.08	$0.18	$0.09
Gasoline, 65 oct., G.3	.05¾	.04½	.06	.04½	.04½	.03¾	.05	.03¾	.0735	.03¾
Kerosene, 41-43, G.3	.04¾	.03	.04½	.03¾	.04½	.03¾	.04½	.03¾	.04½	.03¾
Paraffin, scale 124-126, N. Y	.0253	.02¼	.0295	.0140	.0235	.0185	.0700	.0395	.07	.021
Petrolatum, L. w	.06	.06	.06	.06	.06	.05¼	.07¼	.05½	.07	.04¾
Petroleum thinner, G.3	.06¾	.05¾	.06¾	.05¾	.06¾	.05¾	.06	.05½	.06	.05¾
Stoddard solvent, G.3	.06¾	.06¾	.07¾	.06¾	.06¾	.05¾	.06½	.05¾	.06½	.06¾
V.m.p. naphtha, G.3	.07¾	.06¾	.07¾	.06¾	.07¾	.06¾	.07	.06¾	.07	.06¾

Fertilizer Materials

Ammonia sulphate	$26.00	$24.00	$28.00	$26.00	$27.75	$27.25	$28.00	$28.00	$28.00	$28.00
Phosphate rock, Fla. 68%	1.85	1.85	1.85	1.85	1.85	1.85	1.90	1.90	1.90	1.90
Potash, manure salt	.55	.48	.58½	.55	.58½	.58½	.58½	.58½	.60	.58½
Muriate	.50	.45	.53½	.50	.53½	.53½	.53½	.53½	.53½	.53½
Soda nitrate, bulk	25.50	23.50	27.00	25.50	27.00	27.00	27.00	27.00	27.00	27.00
Superphosphate	7.75	7.75	8.50	7.50	8.00	8.00	8.00	8.00	8.50	8.50

Heavy Chemicals

Establishment of Priority Board Has No Immediate Effect —Export Business Satisfactory Despite Restrictions —Potash Chlorate Continues in a Tight Position

The establishment of a priority board for chemicals had no immediate effect in the market for heavy chemicals last week. Shipments followed an orderly trend. The board will consist of a chairman and committee members representing the producers, consumers, Army and Navy. There is little likelihood at the present for any mandatory orders; but some coordination may be worked out between sources of supply and shipments as they relate to defense projects. Expansion within the industry combined with the work now under way to construct government financed units will relieve much of the strain on basic materials. In the interim the market displayed price stability, with the general tone firm.

Despite restricted markets, license requirements and credit, a good amount of export business was consummated. Inquiries reached here for sizable quantities from Latin America, Canada and the Far East. January business was believed to have recovered from December letdown, while so far this month bookings were favorable. There was less confusion in handling business than this time a year ago. A branch of the office for export control has been set up here to act in an advisory capacity; however, license filings will continue to be made in the usual way through Washington. The new office was expected to eliminate delay in expediting license applications.

Potash chlorate continued to present one of the tight spots in the market. Domestic production was limited, and selling confined to regular consuming channels. Nothing, as far as could be learned, was offered for export. A delayed shipment of French material arrived recently. It is also understood that Japan continues to ship here in limited quantities; the material is held in bond and reexported.

Price Changes

Advanced

None

Reduced

None

Comparative Values

Index numbers compiled from twenty-five typical chemicals on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
158.2	158.2	158.8	153.6

Index numbers compiled from twenty typical acids on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
101.6	101.6	101.6	101.6

Market news that may have developed after this report was sent to press will be found on page 4.

Alums.—Movement moderate against contracts. Prices rule firm.

Alumina Hydrate.—Demand irregular. Quotations remain the same.

Alumina Sulphate. — Domestic and export inquiry good. Firm price tone.

Aluminum.—Business steady. Prices firm.

Ammonia, Anhydrous. — Withdrawals followed seasonal trend. Prices remain firm.

Ammonia, Aqua.—Inquiries and shipments active. Prices unchanged and firm.

Ammonia Bicarbonate.—Dealings routine. Quotations well maintained.

Ammonia Bifluoride.—The call was irregular, while prices continued firm.

Ammonia Carbonate. — Usual consumers made fair-size replacements to keep market position firm.

Ammonia Fluoride.—Not much new business. Prices rule firm.

Ammonia Nitrate.—Active inquiry. Prices were firm.

Ammonia Perchlorate.—Stock depleted; future imports obscure.

Ammonia Persulphate. — Purchases confined to small lots as a rule. Prices underwent no change.

Ammonia Phosphate.—Market a routine affair. Prices hold unchanged.

Ammonia Oxalate.—Steady to firm price tone, with transactions moderate.

Ammonia Silicofluoride. — Market position tight, and spot offerings ranged from 11c. to 15c. per pound.

Ammonia Sulphocyanide.—Demand lacked broadening. Prices firm.

Ammonia Sulphide. — Shipments moderately active. No change disclosed in the quotations.

Ammoniac Sal.—A fairly steady interest prevailed. Pricewise a firm tone prevailed.

Antimony.—Domestic spot price unchanged and firm. Buying usually limited to case lots.

Antimony Oxide.—Dealings routine. Nothing new occurred in the prices.

Arsenic.—The white moved moderately. A firm price tone remained in evidence.

Barium Carbonate.—Prices steady to firm, while the demand was irregular.

Barium Chloride.—Buying for nearby needs was steady. No change in the prices.

Barium Dioxide.—Demand spotty. Prices failed to change.

Barium Hydrate.—The call was irregular. No new price developments.

Barium Nitrate. — Inquiries and shipments steady. Prices rule firm.

Bleaching Powder.—Shipments moderate to regular channels. Prices display firmness.

Calcium Acetate.—Market routine. No change in the quotations.

Calcium Carbide.—Satisfactory export inquiry, with domestic bookings moderate. Prices firm.

Calcium Chloride.—Seasonal movement for ice control a stimulating factor. Prices underwent no alteration.

Carbon Bisulphide. — Shipments steady. Prices unchanged and firm.

Carbon Dioxide.—Prices firm. Business moderately active.

Carbon Tetrachloride.—Market position firm. Buying steady.

Chlorine.—Demand good. Prices the same, with tone firm.

Chloropicrin.—New business light. Prices remain the same.

Cobalt Oxide.—Selling restricted. Not much export business because of license difficulties.

Copper.—Price in the primary market held at 12c. for producers and 12½c. for custom smelters. Export ranged from 10⅜c. to 12c. f.a.s. China reported a buyer.

Copper Salts. — Market displayed

Current prices on heavy chemicals are given in the alphabetical list of prices beginning on page 7

Association Meetings:—

Pulp and Paper Ass'n, Feb. 17-21, New York.
Purchasing Agents Ass'n, May 26-29, Chicago.

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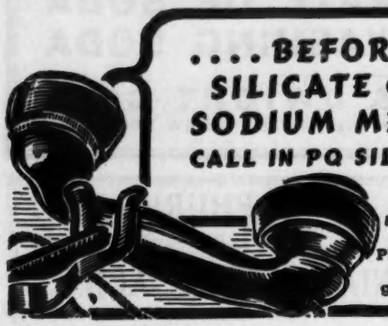
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firmness. Shipments moderately active.

Copper Sulphate. — Buying fairly steady. Market retained its firm tone.

Copperas.—Selling usually limited to regular channels. Prices lacked change.

Ethyl Chloride.—Market a routine affair. Prices rule firm.

Feldspar.—Call steady for moderate quantities. Prices the same.

Fluorspar. — Prices remain firm. Business continued steady.

Glauber's Salt. — Shipments moved at a steady pace to keep market firm.

Lead Acetate.—Transactions routine. Prices were firm.

Lime.—Demand moderately active. Steady to firm price tone.

Magnesite.—Domestic supplies well absorbed. Prices firm.

Manganese Dioxide. — Withdrawals routine against contracts. Prices hold firm.

Molybdenum Metal Powder. — A steady demand prevailed, with prices firm.

Nickel Salts.—Business moved at a good pace. Prices unchanged and firm.

Phosphorous.—Selling of Red restricted; some Japanese material still available for export. Moderate demand for yellow.

Potash Carbonate.—Demand held steady against contracts. Prices continue the same.

Potash, Caustic.—Steady movement to consuming channels. Prices firm.

Potash Chlorate.—Domestic offerings limited to regular channels. French material was offered recently representing delayed shipment. Japanese material arriving in bond.

Potash Cyanide.—Market routine. Prices hold the same.

Potash Permanganate.—Steady demand from domestic channels. Scattered export business in outside market at 23c. to 24c. per pound.

Salt.—Shipments well maintained. Prices display a firm tone.

Saltcake.—Business kept pace with production and market was in satisfactory position. Not much imported material.

Saltpeter.—Steady to firm price tone. Dealings show irregularity.

Soda Acetate.—Purchases moderate. Prices underwent no change.

Soda Antimoniate. — Interest fair. Nothing new disclosed in the prices.

Soda Ash.—Demand moderately active. Prices without change.

Soda Bicarbonate. — Replacement buying moderate. Prices remain the same.

Soda Bisulphite.—Prices firm. Inquiries and shipments fairly steady.

Soda, Caustic. — Shipments moved against contracts moderately. Normal export inquiry. Prices without change.

Soda Chlorate.—Business usually confined to regular domestic channels. Some outside business at 16c. to 17c. per pound.

Soda Cyanide. — Active demand. Prices unchanged and firm.

Soda Fluoride.—The call was routine. Prices failed to change.

Soda Hydrosulphite. — Steady demand from usual sources. Prices firm.

Soda Nitrite.—A satisfactory amount of business passed to keep market position firm.

Soda Phosphate. — Consumers exerted a moderate buying interest. No change in the prices.

Soda Silicate.—Withdrawals steady. Pricewise a firm tone predominated.

Soda Silicofluoride.—Domestic offerings continued limited. Little material available in spot market.

Soda Sulphide.—Demand moderately active, and prices well sustained.

Strontium Salts.—Prices underwent no change, with position firm. Selling limited.

Sulphur, Refined.—Commercial demand satisfactory, with some seasonal demand expected from agricultural sources. Prices firm.

Tin Salts.—Prices remain the same, with tone steady to firm. Straits

Current prices on heavy chemicals are given in the alphabetical list of prices beginning on page 7

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CREAM OF TARTAR : SULPHURIC ACID : CAUSTIC SODA
WHITING : TARTARIC ACID : LIQUID CHLORINE : SULPHUR
TEXTILE STRIPPER : CARBON BISULPHIDE
Stauffer CHEMICALS
STAUFFER CHEMICAL COMPANY
420 LEXINGTON AVE., NEW YORK
424 Ohio Bldg., Akron, Ohio
Carbide and Carbon Bldg., Chicago, Ill.
624 California St., San Francisco, Cal.

metal, reflecting freight rate increase, was quoted around 50.35c. per pound. The world's visible supply of tin at end of January totaled 38,854 tons, against 39,066 tons at end of December, according to latest estimate.

Uranium Oxide.—Market position firm, selling confined to regular channels as a rule.

Zinc Chloride.—Shipments routine against contracts. Prices firm.

Acids

A steady movement against contracts was again evident in the market for mineral acids last week. Business continued to derive much of its stimulus from the national defense program, but export inquiries were also a factor. Prices retained their firmness. Formic, lactic and muriatic moved well in the export market. Not a great deal of acetic was shipped out. Oxalic was in demand for export, but domestic sellers were pressed to supply needs here.

A considerable drop in acetic acid imports into Burma was indicated for the year 1940. Figures available for the first eleven months show imports of only 378 cwts. compared with 1,082 cwts. in corresponding period a year ago. The United Kingdom was the principal supplier.

Acetic.—Demand moderate. Nothing new occurred in the prices.

Battery.—Shipments routine. Prices remain the same.

Chromic.—Steady movement to plating trade. Prices rule firm.

Formic.—Bookings continued steady; some export business. Prices unchanged.

Gallic. — Dealings conservative. Prices held unchanged.

Hydrofluoric.—Steady to firm price tone. Purchases moderate.

Lactic.—Business irregular. Prices failed to change.

Muriatic.—Business steady. Prices unchanged and firm.

Naphthenic. — Quotations nominal. Shipments moderate.

Nitric. — Inquiries and shipments continued steady. Prices firm.

Oxalic.—Offerings limited to usual channels. Good export inquiry, but not much obtainable.

Phosphoric.—Takings routine. Price-wise a firm tone prevailed.

Sulphuric. — Shipments moderately active against contracts. Prices were without change, and tone continued firm.

Baltimore, Feb. 5.—Such business in sulphuric acid as turns up at the present time is still being negotiated, according to statements by producers, at approximately the nominal quotations of $12 per ton for 60-degree, and at $15 per ton for 66-degree acid, and the claim is still made that there is a disposition among them to hold down the market for the present. Business is stated to be proceeding without any signs of a jump in the demand, and the talk about adhering to the present figures despite a rise in freight rates is still heard. Prices of raw materials that enter into acid production are declared to be unchanged, and a disposition among sulphur producers to make no advances in their figures now is being emphasized. In fact, the prevailing state of affairs is declared to be a surprise, with any authoritative explanation lacking. About the same situation prevails in the market for oleum, which item is just about steady around $17 per ton for 20 percent supplies, with the movement featureless.

Insecticides

Transactions in the market for agricultural insecticides and fungicides remained quiet. Preparations were going forward, however, for the coming season, and some dealer activity was near at hand. In the export market, movement to Central America was satisfactory, while some letdown was noticeable in the inquiries from South America because of seasonal factors. Price developments were absent, and market displayed steady to firm tone.

There is a fair and growing demand for insecticides in India, particularly in the larger cities. A great many irritating, destructive, and disease-carrying insects thrive throughout the year. However, the full employment of insecticides is restricted by widespread poverty, little knowledge of the causes of illness, and a belief among a portion of the population that insects should not be destroyed.

Bordeaux Mixture. — New business quiet. Prices remain the same.

Calcium Arsenate.—No new price developments. Preparations for coming season under way.

Lead Arsenate. — Prices remain at former levels. Current business dull.

Paradichlorobenzene.—Buying interest light. Quotations steady to firm.

Thomas Files Answer To F.T.C. Ad Charges

OPD Washington Bureau
February 5, 1941

The Thomas Management Corporation and the Paul A. Thomas Trust, both of Chicago, and Paul A. Thomas, sr., Minneapolis; Catharine M. Thomas, Milwaukee; Norbert J. Thomas and Madeline Thomas, Detroit, and Paul A. Thomas, jr., and Ruth Thomas, Cleveland, distributors of treatments for the hair and scalp through stores located in various cities from coast to coast, have filed answers to a complaint of the Federal Trade Commission charging them with misrepresentation.

The complaint alleged that the respondents, who operate stores under the name "The Thomas," in New York, Chicago, San Francisco, and some twenty-five other cities throughout the country, use extensive advertising to the effect that they can diagnose and cure scalp trouble, stop falling hair, regrow hair, and thereby induce persons to come to their places of business where the various preparations are administered and sold.

The complaint further alleged that the preparations do not effect the remedies and cures advertised, and that the respondents also represented that internal use of the preparations Trichovita and Trichotone are effective in stimulating hair growth, when such in not the fact.

The answer of the Thomas Management Corporation denies that it prepares all advertising copy to be used by treatment offices, but says that various owners of the treatment offices have sole control of the advertising used for their respective offices. Paul A. Thomas Trust also denies that it controls the advertising of the treatment offices.

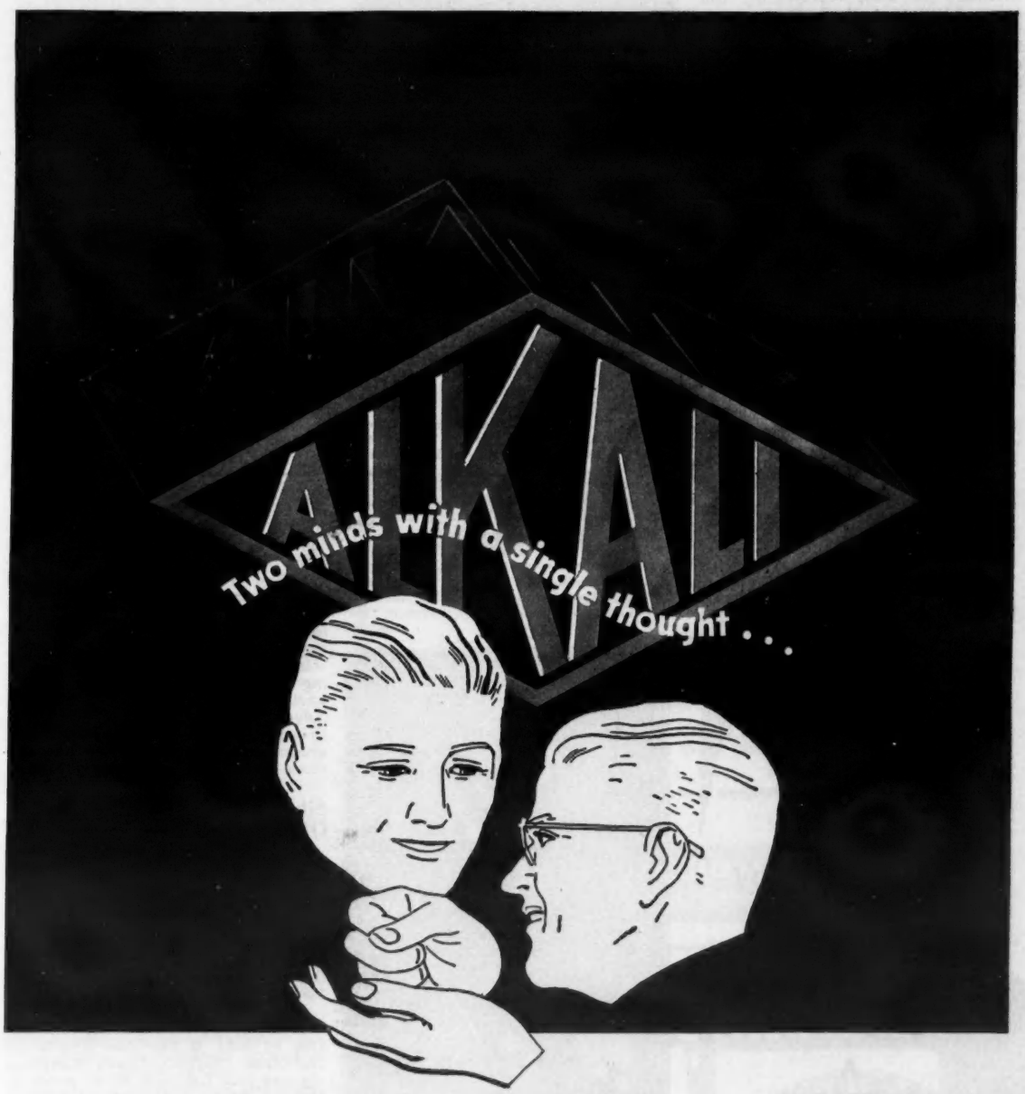
The answers of the remaining individual respondents deny that the advertisements mentioned in the complaint solicit the sale of products, except for Trichovita and Trichotone, which have been discontinued, and that all advertisements solely solicit customers for hair and scalp treatments to be rendered by or after instructions from trained and competent operators, and do not relate to products offered for sale, but only to treatments for the hair and scalp.

All of the respondents admit that the preparations used do not in themselves constitute a remedy or cure for dandruff or a competent or effective treatment for any form of dandruff or itching scalp, and will not by themselves revive the growth of hair or prevent baldness, but deny that any such claims are made for the products.

The replies assert that the Thomas hair and scalp treatments, in the course of which the products are used, have cured and will cure dandruff, have proved an effective treatment for dandruff and itching scalp, and have caused normal hair growth to be stimulated; have stopped the abnormal loss of hair; have promoted the normal growth of hair on thin and bald spots, and prevented baldness.

Guy Wellman has retired as general counsel for the Standard Oil Company of New Jersey.

Ralph Winslow, former assistant advertising manager of Armstrong Cork Company, Lancaster, Pa., has been named director of advertising and publicity for Libbey-Owen-Ford Glass Company. He succeeds Carlton K. Matson, public relations director.



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Howe, Watson, Trigg To Handle Priorities

—Continued from page 5

and metals, (2) chemicals, (3) tools and equipment, (4) commercial aircraft, and (5) general products. Each section may be subdivided into more specific groups, and each section or group will have the services of an advisory committee representing producers, industrial consumers, army, navy, and technical and labor consultants.

Chemical Arbiters

The priority executive for the chemical section is Dr. Harrison E. Howe, editor of the American Chemical Society's journal, *Industrial and Engineering Chemistry*. He will devote a considerable portion of his time to this position and will serve as chairman of the chemicals priority committee, the other members of which are Warren N. Watson, executive secretary of the Manufacturing Chemists Association, representing producers; Ernest T. Trigg, president of the National Paint, Varnish and Lacquer Association, representing industrial consumers; Major Clifford V. Morgan, United States Army Medical Corps, assigned to the commodities division of the Office of Assistant Secretary of War, representing the army; Lieutenant N. S. Prime, representing the navy; and Dr. D. P. Morgan, of the chemical advisory staff of the defense commission, as consultant for the OPM.

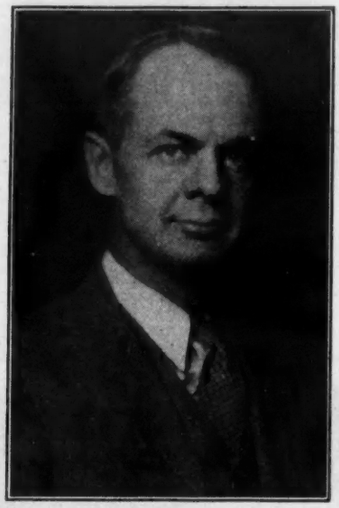
The minerals and metals priority executive is Dr. Ernest M. Hopkins, president of Dartmouth College. Several committees have been appointed under this section to date, including the following:—

Aluminum and Magnesium

Chairman, Dr. Ernest M. Hopkins; representing industrial consumers, Eugene J. Barney, of Frigidaire division, General Motors Sales Corporation; representing the army, Col. A. J. Lyon; representing the navy, Lt.-Commander D. N. Logan.

Nonferrous Metals and Minerals

Chairman, Dr. Ernest M. Hopkins; representing producers, Irving Cornell, vice-president, St. Joseph Lead Company; representing industrial consumers, H. L. Erlicher, vice-president in charge of purchases, General Electric Corporation; representing the army, Col. W. R. Slaughter; representing the navy, Commander W. H. Von Dreele.



Warren N. Watson

Personnel of Division

Between Director Stettinius and the five section executives are the following:—

James F. Towers, assistant director in charge of administration. Mr. Towers is executive vice-president of Ford, Bacon & Davis, Inc., industrial engineers, New York. He is a graduate of Georgia Institute of Technology and has specialized in production and management problems during his business career.

Blackwell Smith, assistant director in charge of staff activities. Mr. Smith was associated with Mr. Stettinius in the industrial materials division of the defense advisory commission. He has had previous governmental experience, including service under the NRA, and has servered his previous connection with the law firm of Wright, Gordon, Zachry, & Parlin to give full time to this assignment.

Charles E. Adams, who will organize the activities of the various industry committees which will be appointed from time to time. Mr. Adams served as special consultant to the industrial materials division of the defense advisory commission and is on leave from his position as president of the Air Reduction Corporation.

Ernest T. Trigg

A. C. C. Hill, Jr., deputy director. Mr. Hill was connected with the Office of the Coordinator of National Defense Purchases and later served as acting deputy administrator of priorities under the old Priorities Board.

Isador Lubin, consultant to the Labor Division of the Advisory Commission to the council of national defense, has been appointed labor consultant to Mr. Stettinius.

Dr. W. S. A. Pott, president of Elmira College, secretary to the priorities division.

No Priorities at Present

As far as could be learned, no priority orders in the chemical field are being contemplated at the present time. In announcing the completion of his organization, Mr. Stettinius said that this does not necessarily mean that formal priorities will be established immediately on the products involved, but on the contrary, timely preparation of administrative mechanisms to meet problems before they become acute may make it possible to postpone or even avoid institution of formal priorities.

The present feeling of officials of the priorities division is that voluntary scheduling of orders and careful planning of production and delivery schedules will avoid the need for government action in the form of priority orders. Defense contractors are being urged to get the cooperation of their subcontractors and suppliers in obtaining delivery of goods when needed for defense orders and to postpone deliveries for nondefense civilian orders when necessary. If this is not effective, or if certain industries become loaded with defense orders which cannot be filled all at once, the priorities division will issue preference ratings telling the suppliers which orders to fill first. Both voluntary and mandatory preference ratings are now in use, but the OPM has statutory authority to issue mandatory orders if necessary.

PAC Clinic to Hear Landis, Roper, Talbot

The Printing and Advertising Clinics, sponsored by the General Printing Ink Company, this city, has announced that the large demand for reservations for the clinic, to be held February 20, has necessitated transferring the holding of it to the auditorium atop the Port of Authority building.

The clinic, originally scheduled to be held at the firm galleries, will be devoted to addresses on "Research in Industry," by Walter Landis, vice-president of the American Cyanamid Company, this city; "Research in Markets," by Elmo Roper, well-known market analyst, and "Research in Printing Inks," by Dr. William F. Talbot, research director for the General Printing Ink Corporation.

Invitations may be obtained by writing Herbert Kaufman, secretary of the advisory board of the Printing and Advertising Clinics, at the General Printing Ink Corporation, 100 Sixth avenue, New York. Admission to the clinic will be by invitation only.

Silver Sulphide Ore Content Of Lead Held Dutiable

OPD Washington Bureau
February 3, 1941

Reversing a lower court, the United States Court of Customs and Patent Appeals today decided that the lead content in silver sulphide ore was not free of duty. The court held that the importation should be assessed at 1½ cents per pound.

According to paragraph 591 of the 1930 tariff act, lead-bearing ores are free of duty if the lead is actually recovered. Watson, Geech Company claimed that the lead, in an importation of 199 bags of silver sulphides, was not actually recovered, and should be free of duty. The lower court found that the lead was recovered for smelting purposes, but since it was not sold as lead, it was not actually recovered within the meaning of the tariff provision.

The appeals court decided differently, and ruled that the lead was used for an industrial purpose, and therefore was subject to duty as lead "actually recovered."

Pacific Can Company's stockholders will meet February 17 to vote on a proposal to exchange 82,051 shares of Pacific Can in acquiring outstanding stock of the Richmond Sanitary Company.

Insecticides Output Up Moderately in 1939

Manufacturers of insecticides, fungicides and related industrial and household chemical compounds reported a moderate increase in production and slight increases in employment and wages for 1939 as compared with 1937, according to preliminary figures compiled from returns of the Census of Manufacturers for 1939 and released by the Bureau of the Census.

The wage earners primarily engaged in manufacturing in this industry in 1939 numbered 5,017, an increase of 5.4 percent over 4,760 reported for 1937, and their wages, $5,393,213, exceeded the 1937 figure, $5,224,893, by 3.2 percent. The value of products of the industry for 1939 amounted to $93,443,777, an increase of 17.3 percent compared with $79,630,861, reported for the year 1937.

Summary for the Industry

Agricultural insecticides and fungicides, total value	$20,097,939	$19,712,767
Calcium arsenate:		
Pounds	39,281,788	37,001,959
Value	$1,911,896	$1,879,253
Lead arsenate:		
Pounds	59,568,596	63,291,440
Value	$5,421,771	$5,540,985
Lime-sulphur solution:		
Gallons	9,491,068	10,864,924
Value	$924,705	$1,013,239
Paris green:		
Pounds	2,040,307	1,834,840
Value	$460,323	$336,152
Rotenone:		
Pounds	3,244,706	*
Value	$566,646	*
Sulphur dust (including mixtures):		
Pounds	36,707,922	†
Value	$998,647	†
Other agricultural insecticides and fungicides including lime-sulphur, dry, and nicotine sulphate, value	$9,813,951	$10,943,238
Household insecticides and repellants, total value	$18,113,699	$17,366,900
Fly sprays:		
Pounds	52,470,737	45,338,893
Value	$7,837,158	$7,339,231
Insect powder (pyrethrum):		
Pounds	3,967,631	7,100,682
Value	$1,222,778	$2,021,754
Fluoride powders and mixtures:		
Pounds	1,262,510	1,072,800
Value	$421,880	$423,032
Moth repellants:		
Pounds	13,096,982	13,558,842
Value	$2,152,085	$2,587,602
Other household insecticides and repellants not reported by kind, value	$6,479,803	$4,995,284
Disinfectants, value	$7,460,950	$6,314,352

* No data.
† Figures for "Sulphur dust (including mixtures)" withheld to avoid disclosing approximations of data reported by individual establishments. Value included with that of "Other agricultural insecticides and fungicides, etc."

Yale Seeks Funds to Expand Chemical Engineering Study

New Haven, Feb. 3, 1941

The Yale School of Engineering is seeking $1,200,000 with which to expand its work in chemical engineering, Dean Samuel W. Dudley announced today. Dean Dudley said the expansion will be in response to increasing undergraduate interest in chemical engineering, as evidenced by the doubling of student enrollment in the past decade, and to demands of the rapidly expanding chemical industries.

As now planned, the project will be carried out in two stages. The first step would increase floor space available for chemical engineering from the present 14,000 square feet to 33,000 square feet, at a cost of $700,000. The second step, calling for $500,000, would complete the building and provide for additions to the teaching staff, permitting a larger enrollment.

Timm Heads Simmons College Science School

Dr. John A. Timm, assistant professor of chemistry at Yale University, has been appointed professor of chemistry, director of the School of General Science and chairman of the division of science at Simmons College. He will succeed Dr. Kenneth L. Mark.

J. E. Moorehead, executive secretary of the Pennsylvania Grade Crude Oil Association, was elected vice-chairman of the Associated Petroleum Industries of Pennsylvania at the annual meeting held in Philadelphia. The post is a new one.

Ethyl Gasolene Corporation, this city, has named John G. Martin, former director of the motor clinic system, Eastern regional manager, and Richard C. Murphy, former manager of the New York division, Western regional manager.

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Dyestuffs, Textile and Leather Chemicals

Tanners Corn Sugar, Dextrin and Starch Prices Lowered —Additional Taxes Proposed for Imported Egg Products —Alleppo Nutgalls Easier—Tanning Materials Firm

Buying for the most part remained on a conservative scale in the market for dyestuffs, textile and leather chemicals last week. Sizing materials, however, moved at a better pace. Tanning materials were taken moderately. Natural dyestuffs continued quiet. Demand for most chemicals was routine. Price changes were confined to declines in corn derivatives and Alleppo nutgalls.

Corn sugar, starch and dextrin were no longer on a nominal basis. Sellers were accepting new business at the lower levels. Domestic egg products remain unchanged. Offerings of imported egg albumen were negligible and market was strictly nominal. Sweetpotato starch was nominal, with new crop awaited. Raw tanning materials and extracts held at previously established levels. Zinc dust was a firm feature, reflecting the tight situation in the basic metal.

Rep. Harold Knutson of Minnesota has introduced a bill (H.R. 2826) providing for taxes on imported egg products. Poultry eggs in the shell are taxed 10 cents per pound. Dried whole eggs, dried egg albumen, and dried egg yolk are taxed 31 cents per pound. A tax of 10 cents per pound is laid on whole eggs, egg yolk, and egg albumen. These products may be frozen or preserved with or without salt, sugar, glycerin, milk products or any other material. These taxes would be in addition to any others now in effect.

Price Changes

Advanced

None

Reduced

Corn, dextrin, 5c. per 100 lbs.
starch, 5c. per 100 lbs.
sugar, 5c. per 100 lbs.
Nutgalls, Alleppo, 1c. per lb.

Comparative Values

Index numbers compiled from nineteen typical dyestuffs on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
153.6	153.8	154.0	144.6

Market news that may have developed after this report was sent to press will be found on page 4.

Chemicals

Alumina Acetate.—Demand routine. Prices without change.

Alumina Chloride.—Good inquiry, and shipments moderate. Prices firm.

Ammonia Acetate.—Business confined to nearby needs. Quotations without change.

Ammonia Bichromate.—Small lots continue to make up the call. Prices lack change.

Antimony Salts. — Market quiet. Prices remain the same.

Chrome Acetate.—Transactions routine. Steady to firm price tone.

Potash Bichromate. — Withdrawals moderate against contracts. No change in prices.

Potash Prussiate.—Fair movement of yellow; supplies of red depleted.

Soda Bichromate.—Shipments moderately active. Good export inquiry. Prices rule firm.

Soda Prussiate.—Buying moderate. Pricewise a firm tone prevailed.

Sulphonated Oils.—Demand irregular. Prices unchanged, and tone about steady.

Zinc Dust.—Selling limited to regular channels as a rule. Prices firm.

Dyestuffs

Annatto.—Dealings narrow. Prices failed to change.

Cochineal.—Consumers made necessary replacements only. Prices unchanged.

Fustic.—The call was spotty. Nothing new occurred in the prices.

Hypernic.—Fair demand. Prices held the same.

Indigo.—Firmness characterized the market, but business was not broad.

Logwood.—Shipments routine. A firm price tone remained in evidence.

Madder Dutch.—Buying conservative. No change disclosed in the prices.

Turmeric. — Business irregular. Prices held at previous levels.

Sizing Materials

Albumen, Blood.—Fairly steady demand, with prices firm.

Albumen, Egg. — Domestic prices well maintained, while imported was strictly nominal. Moderate inquiry.

Corn, Sugar.—Prices lowered 5c. per 100 pounds for all grades. Bookings moderately actively.

Dextrin, Corn.—All grades reduced 5c. per 100 pounds. Steady interest.

Egg Yolk. — Prices underwent no change. Tone steady to firm. Business spotty.

Sago Flour.—Inquiries reached market steadily, and prices held firm.

Starch, Corn.—Quotations 5c. per 100 pounds lower. Shipments moved steadily in most directions. Visible supplies of corn during week ended February 1 increased 136,000 bushels.

Starch, Potato.—Domestic prices unchanged. Satisfactory demand.

Starch, Rice.—Prices unchanged and firm. Business steady.

Starch, Sweetpotato.—Market nominal, with new crop awaited.

Starch, Wheat.—Prices rule firm, and withdrawals moderate.

Tapioca Flour.—A firm price tone remained in evidence, while shipments continued steady.

Tanning Materials

Chestnut Bark.—Routine withdrawals against contracts. Prices firm.

Cutch. — New business moderate. Prices display firmness.

Divi Divi.—Inquiries only moderate. Prices remain the same.

Gambier.—Market in firm position. Prices underwent no alteration.

Hemlock. — Replacement buying is steady. Prices remain firm.

Hematine.—Business fair, and prices continue without change.

Mangrove Bark.—Not much feature to the trading, with prices unchanged.

Myrobalans. — New business light. Prices lack change.

Nutgalls.—Alleppo 1c. lower, ranging from 27c. to 29c. per pound; Chinese unchanged. Business narrow.

Oakbark. — Shipments moderately active. Prices display firmness.

Osage Orange.—Demand conservative. Prices lack any change.

Quebracho. — Buying held steady, and tone of market was firm.

Spruce. — Dealings irregular. No change disclosed in the prices.

Current prices on dyestuffs and tanstuffs are given in the alphabetical list of prices beginning on page 7

Oils Sulphonation Shows Decrease in Last Quarter

Sixty-six establishments in the United States reported the sulphonation of fats and oils during the quarter ended December 31, 1940, according to data issued by the Bureau of Census. Data as to the production of these plants, with comparable data for the same period in 1939 is shown in the following table:—

Animal

	Pounds	
	1939.*	1940.
Tallow	1,789,000	1,901,000
Neatsfoot oil	395,000	464,000
Cod oil	2,307,000	1,951,000
Sperm oil	865,000	1,026,000
Red oil	465,000	696,000
Miscellaneous	220,000	260,000
Totals	6,041,000	6,298,000

Vegetable

Coconut oil	145,000	206,000
Corn oil	146,000	174,000
Olive oil	531,000	314,000
Castor oil	4,316,000	3,194,000
Teaseed oil	812,000	311,000
Miscellaneous	937,000	1,302,000
Totals	6,889,000	5,301,000

* Reported by 65 establishments.

La. Minerals Division Moved to Baton Rouge

Baton Rouge, La., Feb. 5, 1941

The minerals division of the State conservation department was formally transferred from New Orleans to this city last week. The shift is part of the reorganization program under which the minerals division will be completely separated from the conservation department.

Continental Can Building Storage Addition in L.A.

Continental Can Company, this city, has started construction work on a storage addition to its Los Angeles plant. The addition, which is to be of reinforced concrete, will be of two stories, 140x200 feet, and contain approximately 28,000 feet of floor space.

Tariff Commission Issues Data on Starches, Dextrines

The United States Tariff Commission has just released a report, "Starches, Dextrines and Related Products," which deals with the production, trade, and utilization of these products. Special attention is directed to competition between domestic and imported starches, particularly between domestic corn starch and imported tapioca flour. Although the report is in the main confined to the industry and trade of the United States, it also includes data with respect to world production and trade. Of particular interest is the information relative to the Netherlands indies, the source of most of the tapioca entering international commerce.

Gair Co. to Recapitalize

A special meeting of stockholders of Robert Gair, Inc., container manufacturer, this city, has been called for February 28, to act upon amendment of certificate of incorporation and certain other matters in connection with the consummation of a plan for recapitalization. Earlier on the same day a meeting of the preferred stockholders will be held at the direction of B. N. Brown, special master appointed by Vice-Chancellor Pierson, Wilmington, to act on the plan.

Mining Briefs Deadline Extended to February 20

At the request of several participants in the informal fact-finding conferences on metal mining practices held in Salt Lake City, Utah, and Birmingham, Alabama, in December and January, the closing date for the receipt of briefs and written statements has been extended from February 10 to February 20. Briefs should be addressed to Harold Stein, assistant director of the hearings branch, Wage and Hour Division, United States Department of Labor, Washington.

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Coaltar Chemicals

Steady Inquiry for Cresylic Acid — Creosote Oil Firm — Phenol Moves Steadily—Toluol Demand Remains Good—Coaltar Intermediates and Acids Moderately Active

The character of business underwent little change in the market for coaltar chemicals last week. Sellers report a steady demand for many items against contracts. In certain instances bookings were made well ahead, and some reluctance was evident in accepting all new business. Supplies, however, in the majority of instances were sufficient to cope with all inquiries, both domestic and export. No price developments took place, and the market retained its steady to firm tone.

Benzol moved moderately against contracts and market position was little changed. Creosote oil displayed firmness. Cresols were well booked ahead. Cresylic acid met with a steady inquiry and, despite appearance of imported materials, consumers were inclined to buy domestic in view of the uncertainty of future supplies. Naphthalene was well bought; refined was expected to move to jobbing channels from now on. Phenol was taken steadily. Pyridin demand was sufficient to absorb available offerings. Shipments of toluol were good.

Coaltar intermediates were in moderate demand, and shipments were generally steady. Anilin, benzaldehyde, dimethyl anilin, dinitrobenzene, dinitrotoluene, nitrobenzene, orthocresol, orthodichlorobenzene, and phthalic anhydride were in good call. A satisfactory inquiry prevailed for hydrogenated solvents, partially reflecting the more favorable price levels. In coaltar acids, fumeric, maleic and picric received steady buying support. Business in coaltar colors continued satisfactory, although some irregularity was noticeable.

Price Changes

Advanced
None
Reduced
None

Comparative Values

Index numbers compiled from twenty typical coaltar products on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
126.6	126.6	126.6	127.3

Market news that may have developed after this report was sent to press will be found on page 4.

Basic Products

Benzol.—Purchases moderate against contracts. Prices lacked change.

Carbazol.—Dealings routine. Pricewise a firm tone predominated.

Coaltar.—A fairly active inquiry prevailed, with prices maintained at firm levels.

Creosote Oil.—Market displayed firmness. Inquiries and shipments held at favorable levels.

Cresols.—Bookings were sufficient to keep market position firm. Shipments steady.

Cresylic Acid. — Domestic prices firm, and withdrawals held up well. Supplies of imported were spasmodic.

Naphthalene.—Demand for crude steady. Movement of refined showed signs of a seasonal revival. Prices firm.

Oil, Shingle Stain.—New business narrow. Prices without change.

Phenol.—Business maintained at a steady pace. Prices failed to change, and tone was steady to firm.

Pitch, Coaltar. — Transactions routine. Prices held firm.

Pyridin.—Sellers well booked ahead against production. Prices remain the same.

Tar Acid Oils.—Interest only fair. Nothing new occurred in the prices.

Toluol.—A steady demand remained in evidence. Pricewise a firm tone prevailed.

Xylol.—Purchases moderate against contracts. Prices rule unchanged and firm.

Chicago Coaltar Bases

Movement of various grades of coaltar materials proved to be mostly of routine variety in the last few days, with market movements at a low ebb. Buyers continued to display routine type of interest in the offerings, and orders attained a moderate volume, about in keeping with recent conditions. Benzol demand was fair. Ruling prices exclusive of tax were:—Benzol, 90 percent, 14c. to 15c. per gallon; motor benzol, 8½c. to 9c., nearby refineries; toluol, 27c.; 10-degree xylol, 26c.; solvent naphtha, 26c.; cresote oil, grade 1, 13½c. to 14c.

Hydrogenated Solvents

Cyclohexane.—Call was moderate and prices held the same.

Cyclohexanone.—Shipments fairly steady. Prices rule firm.

Methylcyclohexanol. — Withdrawals were satisfactory and no change occurred in the prices.

Methylcyclohexanone. — Inquiries and shipments at favorable levels. Prices without change.

Coaltar Acids

Anthranilic.—Character of trading underwent little change from recent week, while prices held firm.

Benzoic. — Commitments routine. Nothing new occurred in the prices.

Broenner's.—Buying held close to production needs. Prices unchanged.

Cleve's.—Business spotty. Prices displayed no alteration.

Fumaric. — Shipments moderately active and prices steady to firm.

Gamma.—Consumers made necessary replacements only. Quotations unchanged.

H.—Market continued strictly routine. Prices were unchanged.

Laurent's.—Buying lacked broadening, but prices held firm.

Maleic.—A steady interest prevailed, with prices well maintained.

Malic.—Withdrawals moderate to regular channels, and prices the same.

Picramic.—Demand moderately active. Firm price tone.

Picric.—Market position firm. Shipments steady.

Salicylic.—A fair interest was evident. Prices unchanged and firm.

Succinic.—The call was irregular. No change disclosed in the prices.

Sulphanilic.—Purchases moderate as a rule. Prices failed to change.

Tobias.—Business routine. Pricewise a firm tone prevailed.

Other Intermediates

Alphanaphthol.—Firm price tone; shipments steady.

Alphanaphthylamine. — Demand moderate. Prices rule firm.

Anilin. — Shipments steady. No change occurred in the prices.

Anthraquinone. — Interest fairly steady, while prices were firm.

Benzaldehyde.—Purchases moderate, and prices lacked change.

Current prices on coaltar products are given in the alphabetical list of prices beginning on page 7

Benzidine Base.—Market a routine affair. Prices without alteration.

Betanaphthol.—The tone was firm, while business was irregular.

Betanaphthylamine.—Takings moderate. No change in the quotations.

Dimethylanilin.—Shipments steady. Prices unchanged and firm.

Dinitrobenzene.—Buying moderately active. Prices firm.

Dinitrochlorobenzene. — Steady inquiry. Prices failed to change.

Dinitronaphthalene. — Withdrawals moderate. Prices remain the same.

Dinitrophenol. — Trading lacked broadening, and prices rule unchanged.

Dinitrotoluene. — Market position firm, and business steady.

Diphenyl.—Demand spotty. Pricewise a firm tone prevailed.

G. Salt.—Market a routine affair. Prices unchanged.

Metanitroparatoluidin. — Transactions narrow. Prices unaltered.

Nitrobenzene. — Shipments steady. Prices remain firm.

Nitronaphthalene. — Buying moderate. Quotations without change.

Orthoanisidin. — Business routine. Prices held unchanged.

Orthochloroanilin. — Buying for necessary replacements as a rule.

Orthochlorophenol.—Demand irregular. Pricewise a firm tone prevailed.

Orthocresol. — Shipments moved steadily. Prices remain firm.

Orthodichlorobenzene. — Interest moderately active, and prices display firmness.

Orthonitroanilin.—Purchases steady from regular channels.

Orthonitrotoluene.—Firm price tone, and inquiries at satisfactory levels.

Orthotoluidin. — Prices unchanged and firm. Business steady.

Parachlorophenol. — Transactions routine. Prices without change.

Paranisidin.—Withdrawals irregular, and prices failed to change.

Paranitroanilin.—Takings moderate, and prices held firm.

Paranitrophenol. — Buying lacked broadening, while prices were the same.

Paranitrotoluene.—Usual consumers made appearance for necessary needs.

—*Continued on page 40*

Effective Association Functioning Essential to Private Enterprise

By John M. F. Donovan, Jr.
Trade Association Counselor

(Continued from February 3 issue)

IV. The Necessity for Legal Guidance

The mere exchange of data or the interchange of information or the exertion of influence by one manufacturer or distributor against another is not condemned by the law if independent industrial policies are followed in the pursuit of individual businesses. Every type of common understanding is unquestionably in violation of law, however, whether informal or implied, because the same end is sought in each instance as that which would be achieved by an express agreement.

In the eyes of the law, reciprocal promises, whether expressed or implied, arise when a promise is accepted for another promise with regard to some particular matter. The illegality of such promises is determined by the presence of some form of restraint, and is not excused by the fact that some uniform action by members of a trade association may have been intended to have achieved a reasonably beneficial result for the industry and for the consuming public. When there is a subordination of the purpose of any legitimate objective by mutual consent of the members, such a trade association activity is definitely beyond the realm of permissible legal sanction.

Suppression of Competition

There are some trade association activities which have been conclusively declared to be unlawful. The more important functions of these business groups in this category are:—

(1) Restraints of trade as a result of concerted selling operations.

(2) Exclusion of potential competitors from the market.

(3) Curtailment or control of production.

(4) Manipulation of prices.

The essence of the illegality in each of these types of unfair trade practices is the presence of a concert of action which produces a suppression of competitive conditions. These activities have been considered to be illegal, even though the trade association membership does not represent the whole industry, even though the restrictive policies are not always effectively enforced, and even though there always remains a possibility of competition regardless of the comprehensive and vigorous control exercised by the trade association.

The most common change against trade associations for violating the antitrust laws is probably that of price-fixing or price-maintenance, as a result of some arrangement or agreement among the members which fixes a uniform policy with regard to the prices which are to be charged or maintained for their products. The existence of any concerted action of this nature is unquestionably unlawful and is not excusable even though the details of the scheme may appear to benefit all members of the industry and their customers, and regardless of the presence or absence of actual or potential competion.

Questions as to the legality of policies of trade associations which directly or indirectly affect prices usually require somewhat involved legal opinions, because the illegality of many practices lies in some component element of a contemplated joint action and not in the net result of the cooperative activity. Trade associations should be guided most carefully, therefore, to avoid engaging in any practice that might tend directly or indirectly to restrict or limit price competition within their industries.

To be continued

Aluminum Output Set High Record in 1940

Primary aluminum production in 1940 exceeded the peak reached in 1939 by 26 percent and consumption rose 35 percent above that in 1939, according to the Bureau of Mines. A total of 412,560,000 pounds of new aluminum valued at $75,292,210 was produced in the United States in 1940 contrasted with 327,090,000 pounds valued at $64,600,000 in 1939. The apparent consumption of primary aluminum in 1940 totaled 454,034,409 pounds, compared with 335,337,860 pounds in 1939. At the end of 1940 aluminum was being produced at a rate exceeding 500,000,000 pounds annually.

Phelps Dodge Strike Ended

Elizabeth, N. J., Feb. 3, 1941

Employees of the Phelps Dodge Corporation, copper refiners, returned to work today, ending a two-day strike. The strikers won their point, the right to hold an election to determine a collective bargaining agency for the plant's 1,600 employees. With the ending of the strike the plant again was on the 24-hour schedule that has been maintained in recent months. The company has $30,000,000 in contracts for copper tubing and wire for the army and navy, and an additional $200,000,000 in defense orders contingent upon its ability to supply fabricated parts to other manufacturing concerns.

Bradford Oil Refining Company, Bradford, Pa., remains inoperative following last week's meeting of directors to discuss several proposals made for resumption of operations.

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Phenol · Cresol · Cresylic Acid

TAR ACID OILS

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SYNTHETIC RESINS
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PHENOL—All standard grades such as 82% and 90% and 39° Melting Point Pure.

CRESOL—U.S.P. with very close cut distillation range and light color, for pharmaceutical purposes—Meta-Para Cresol with high meta cresol content—Resin cresols close cut to wide boiling with guaranteed meta cresol contents and clean odor.

CRESYLIC ACID—Many distillation ranges appropriate for all established uses—pale color—clean odor—total impurities besides water not exceeding one half of one per cent.

TAR ACID OILS—Frozen crystal free at 0°C.—good emulsion-forming properties—low benzophenol content—appropriate for low to high coefficiencies with tar acid contents as required.

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Benzol (all grades) . . . Toluol (Industrial and Nitration) . . . Xylol (10° and Industrial) . . . Solvent Naphtha (Including High Flash) . . . Napthalene . . . Shingle Stain Oil . . . Refined Tars . . . Pitch Coke . . . Industrial Coal Tar Pitches . . . Flotation Oils . . . Creosote

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Coal Tar Roofing Materials . . . Waterproofing and Dampproofing Materials . . . Tarmac Road Tar Materials . . . Bituminous Base Paints . . . Coal . . . Coke . . . Benzol Recovery Plants . . . Naphthalene Removal Apparatus . . . Sulphur Recovery Apparatus . . . Phenol Removal Apparatus . . . By-Product Recovery Apparatus . . . Fast's Self-aligning Couplings . . . Piston Rings . . . Valves . . . Pressure-treated Lumber

Coaltar Chemicals

Other Intermediates

—*Continued from page 39*

Paratoluidin.—Prices firm. Demand fairly steady.

Phthalic Anhydride. — Shipments moved steadily. Prices unchanged, and tone firm.

R. Salt.—Business routine. Prices underwent no change.

Schaeffer's Salt.—Moderate quantities made up the call.

Thiocarbanilide. — The call was steady and prices firm.

Toluidin, Mixed.—Consumers made steady commitments against contracts.

Xylidin, Mixed. — Steady to firm price tone prevailed. Buying moderate.

Coaltar Colors

While some irregularity continued to prevail in the demand for coaltar colors, business in certain directions was regarded as satisfactory. Current operations in consuming lines and the outlook for many continued promising. The market received several inquiries for export and actual shipments were made in sizable quantities. Prices underwent no alteration, and the tone was steady to firm.

Imports of artificial indigo into Egypt during the first half of 1940 totaled 88,687 kilograms, against 58,064 in the like period a year ago. The United Kingdom and France were the principal source of supply. Germany shipped none in the first half of 1940, but in the corresponding period of 1939 furnished 9,859 kilograms. Other coaltar dyes imported into Egypt during the 6-month period ended June 30, 1940, amounted to 368,449 kilograms compared with 248,003 kilograms in same period a year ago.

Klabin Industries of Parana, Inc., Brazil, is planning a $3,000,000 paper and pulp plant in Parana, to take care of 70 percent of Brazil's normal requirements.

Durrett Becomes F.T.C. Medical Adviser

—*Continued from page 5*

ication, but instead, to make self-medication safe.

Since a number of the provisions of the Wheeler-Lea amendments to the Federal Trade Commission act are similar to those included in the food, drug, and cosmetic act, Dr. Durrett should be familiar with the requirements of the act as it relates to advertising. From his experience in the Food and Drug Administration, he is well aware of the fact that one man's opinion is not generally considered satisfactory evidence to substantiate therapeutic representations, but instead, either the manufacturer or the government must base their views concerning therapeutic representations on a substantial amount of reliable scientific opinion.

When a physician first enters a Federal agency charged with the enforcement of a law, he is, so to speak, lost. He must go through a training period of several months before he fully realizes what is necessary to render a physician an efficient and impartial enforcing official. Dr. Durrett has had all of this training and should therefore be of extreme value to the Federal Trade Commission.

Koppers Tar & Chemical Div. To Have New York Office

Consolidation of New York city headquarters for three Koppers Company divisions and an affiliated company at 60 East Forty-second street, has been announced for early February.

Koppers Company, tar and chemical division is establishing New York headquarters for the first time. The wood preserving, gas and coke divisions and the Koppers Coal Company, a Koppers Company affiliate, are moving from 90 Broad street. The new telephone number will be Murray Hill 2-8040.

F. R. Gates, manager of the naval stores department of William S. Gray & Co., this city, returned last week from a business trip in the South.

Chemists' Club to Hold War Symposium Feb. 19

War on the sea, in the air and on the air waves will be the topic of the Chemists' Club's symposium, to be held February 19. Dinner will be served at 6:30 p.m., with the meeting set to start at 8 p.m.

John Edward Allen will act as toastmaster, and among the participants will be Fletcher Platt, an authority on naval matters; Christopher T. Emmet, chairman of the New York Committee of Aid Britain by Reciprocal Trade, and Bernard Capehart, aviation expert for Collier's Weekly and a fellow of the Institute of Aeronautical Science. There will be a display of scale models, various types of vessels in the U. S. Navy, and also models of outstanding ships in the British and Axis navies.

Sulph. Dioxide Recovery From Flue Gas Discussed

A process for the recovery of sulphur dioxide from dilute gases, such as stack gases, is described in a new bulletin issued by the engineering experiment station of the University of Illinois. The process depends on regenerating the absorbing solution by treatment with zinc oxide. The absorbed sulphur dioxide is converted into insoluble zinc sulphite. After removal of the solid, the absorption liquid is returned to the scrubber. The zinc sulphite is dried and calcined under moderate temperature, yielding sulphur dioxide, water vapor, and regenerating zinc oxide.

Until July 15, 1941, or until the supply available for free distribution is exhausted, it is stated, copies of the bulletin, No. 324, may be obtained without charge upon application to the engineering experiment station, Urbana, Illinois.

Jones & Laughlin Former Head Now with OPM

Samuel Hackett, former president of Jones & Laughlin Steel Corporation, Pittsburgh, has been appointed consultant to the steel units, materials branch, division of production, of the Office of Production Management. He replaces Walter S. Tower, president of the American Iron & Steel Institute, who recently was transferred to the priorities committee, division of priorities, of the Office of Production Management.

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VISCOUS OILS
(extremely viscous polymerized hydrocarbons)

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Largest manufacturers in the World of low temperature tar acids of the highest possible degree of purity and efficiency.

A considerable proportion of the output is already being exported to North and South America for disinfectants, germicidal products and plastics, in addition to the special high efficiency flotation grade for the mining industry.

This is the first time in history that highly refined tar acids of this type have been made available on a large scale, and remarkably good results are being obtained by our many American buyers.

Please send us a note of your requirements with full particulars to our Sales Agents:—

TAR RESIDUALS, LTD., "Garthlands," Reigate Heath, SURREY, ENGLAND

These exclusive features of

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increase your production, cut processing costs and assure you a better product

Here is a Benzol completely free of corrosive compounds—that will keep your stills running on a continuous maximum production basis—with fewer shut-downs for cleaning.

J & L CXP Benzol is made by an exclusive process giving it a high degree of purity that marks it as one of the outstanding chemical achievements of the day.

You are assured better distilling operations, lower operating costs and increased production by using J & L CXP Benzol—always uniform and always consistent.

J & L CXP Benzol has the following critical properties guaranteed—Freezing Point 5.30° C—Boiling Range, less than 1° C—Bromine Index 3.

Write us on your letterhead and we shall be glad to send you a free sample of J & L CXP Benzol.

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Refinery and Deepwater Terminal, Good Hope (New Orleans), La.

Paint, Varnish, Lacquer Materials

Paint Materials Market Remains Very Active—New Business in Pigments Quieter—Deliveries on Past Contracts Heavy — Chemical Colors Demand Strong

Producers and suppliers of raw paint materials reported an extremely active market in general last week, maintaining the pace that was set at the beginning of the year. The demand for various types of pigments abated somewhat, but this was due to the fact that large numbers of buyers had bought and accepted delivery for weeks ahead, rather than any slackening of interest in offerings. This was especially true of the market for titaniums, but producers did not feel the slowing down would last any length of time.

Chemical colors were attracting good buying interest and contract call was insistent. Deliveries of most material were large in volume. Carbon black demand was especially strong, with reports that shipments were exceeding production. There were ample stocks on hand, however. Demand for quicksilver vermilion was greater, but prices were maintained at previous levels. It was reported that the government was a heavy buyer of technical mercuric oxides on the West Coast.

The market for natural resins was marking time but this was believed only a temporary condition. Prominent suppliers were confident of a pick-up in the near future. Hide and bone glues were not offered freely, with posted prices virtually nominal. Stocks were small. Casein demand was slack but, despite reports of price-shading, quotations on both the domestic and imported product were maintained at previous levels by leading sellers.

Turpentine declined sharply early in the week owing to a lack of demand of consequence and somewhat freer offerings. The government remained in the market as a seller. Rosin prices moved within comparatively narrow limits, the prevailing tone in the South being steady. Business was somewhat more active.

Metallic Lead and Zinc

Buying of pig lead was satisfactory to prominent suppliers during the period under review. Normal amounts moved into consumption. Price was steady at both New York and East St. Louis. Slab zinc demand was strong, but sellers pursued the previous policy of curtailing sales in order to preserve small stocks on hand. Price was steady and unchanged.

Lead.—Prevailing spot prices at New York, East St. Louis and London for the period from February 1 to February 7, inclusive, were as follows:—

	Pigs		
	Per pound		Spot. London. Per ton
	New York.	E. St. Louis.	£ s. d.
Saturday	$0.0550@.0555	$0.0535	..* .. ..
Monday	.0550@.0555	.0535	.. .. ..
Tuesday	.0550@.0555	.0535	.. .. ..
Wedn'sd'y.	.0550@.0555	.0535	.. .. ..
Thursday.	.0550@.0555	.0535	.. .. ..
Friday	.0550@.0555	.0535	.. .. ..

* London exchange closed.

Zinc.—Prevailing spot prices at New York, East St. Louis and London for the period from February 1 to February 7, inclusive, were as follows:—

	Slabs		
	Per pound		Spot. London. Per ton
	New York.	E. St. Louis.	£ s. d.
Saturday	$0.0765	$0.0725	..* .. ..
Monday	.0765	.0725	.. .. ..
Tuesday	.0765	.0725	.. .. ..
Wednesday	.0765	.0725	.. .. ..
Thursday	.0765	.0725	.. .. ..
Friday	.0765	.0725	.. .. ..

* London exchange closed.

Pigments

Antimony White.—Market tone well maintained. Demand was more or less routine.

Flake White. — Contract shipments continued along normal lines. Inquiries were routine. Price firm and unrevised.

Litharge. — A slight slackening of buying interest appeared in the market but this was believed to be only temporary. Prices were steady and unchanged.

Lithopone. — Demand for contract supplied continued at a good level. More shipping instruction reached the hands of prominent producers. Prices were firm and unchanged.

Red Lead. — Better-than-normal business remained the feature of the market for this pigment. No changes in prices were recorded.

Titanium Pigments. — Principal activity in the market was the heavy shipment of material contracted for late last year and early this year. There was little new business but prominent suppliers were looking for an improvement along these lines within a month.

White Lead. — Shipments on contract were running at good seasonal levels. New business was small but was expected to broaden. Prices were firm and unchanged.

Zinc Oxides.—There were no new developments during the period under review. The call for contract delivery remained very insistent and shipments were large in volume. New business was somewhat conservative but more inquiries appeared in the market.

Zinc Sulphide.—The market was maintained at a firm level by normal demand. Prices were unchanged.

Price Changes

Advanced

None

Reduced

Rosin, gum, medium, 2c. to 5c. per 100 lbs.
Turpentine, gum, s.d., 4c. per gal.

Comparative Values

Index numbers compiled from eleven typical paint and varnish materials on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
128.0	128.0	128.0	126.2

Market news that may have developed after this report was sent to press will be found on page 4.

Current prices on paint, varnish and lacquer materials are given in the alphabetical list of prices beginning on page 7

Association Meetings:—

Purchasing Agents Ass'n, May 26-29, Chicago.

HOOT MON! PARANOL 25

FOR A MON WI' AN EYE TO LOW COST PRODUCTION

Paranol 25 is a bonny buy . . . and the quality would truly surprise a mon wi' a searchin' pair of eyes!

And listen, mon! The way it works wi' softer oils will make your heart do a highland fling for glee. — Sshish! A sample and data dinna cost ye nothin'.

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PARAMET CHEMICAL CORPORATION
MANUFACTURERS OF SYNTHETIC RESINS
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ULTRAMARINE

You can count on Ultramarine for blues that fairly sing with color—for sparkling *white* whites—or for any shade in between. For this grand color has never been bettered for versatility and the kind of properties that make it a pleasure to work with. Our complete processing control assures uniformity from one lot to the next in strength, working properties, fastness to light and alkalis. Special types that are *right* for special uses are available to the Paper, Rubber, Soap, Linoleum, Textile and Paint industries. Write today stating your needs for blue and a free sample to meet your requirements will be sent promptly.

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ALUMINUM STEARATE
MAGNESIUM STEARATE
Stocks at
• NEW YORK
• CHICAGO
• ST. LOUIS
• KANSAS CITY
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• SAN FRANCISCO
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DRY COLORS
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Chrome Greens
Chrome Yellows
Toluidine Reds
Para Reds Iron Blues
Cadmium Colors
Lake Colors
Ultramarine Blue
KENTUCKY COLOR & CHEMICAL CO.
Incorporated
General Office and Works
LOUISVILLE, KENTUCKY
Offices and Agents in Principal Cities
Distillers of Coal Tar Products

SLCo
Ultramarine Blue
Alkali Blue Toner
Dyestuffs
Methyl Violet Toners
Blanc Fixe
Iron Blues
Para Toners
Toluidine Toners
Lithol Toners
Red Lake C Toners
Permanent Orange Toners
Pyrotone Red Toners
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SPECIALIZED NAPHTHA SOLVENTS THAT ARE DEPENDABLE AND UNIFORM:
SOCONY-VACUUM
SOVASOLS
SOVASOL No. 1 — Excellent General Rubber Solvent. Quick-Drying —Has Balanced Volatility.
SOVASOL No. 2—Fast-Drying Lacquer Diluent and Rubber Cement Solvent. Chemically Stable.
SOVASOL No. 3—Thinner for Lacquer, Lacquer-Enamel and Fast-Drying Varnish. Stable—Non-Corrosive.
SOVASOL No. 4—Varnish-Makers' and Painters' Naphtha for Quick-Drying Paints and Varnishes.
SOVASOL No. 5—Highly Refined, Colorless, Odorless Paint — Varnish Thinner.
SOVASOL No. 6—Excellent Paint Retarder. Safe, clear, free from objectionable odor.
Socony-Vacuum Oil Co., Inc.
26 BROADWAY, NEW YORK CITY

Driers

There was little change in the market status of various stearates and palmitates. Contract call remained normal and satisfactory. Prices were firm and unchanged.

Fillers and Extenders

Asbestos.—Good movement. Inquiries better. Price firm and unchanged.

Asphaltum.—Fairly good demand for contract deliveries. Inquiries more numerous, but only small amount of new business reported. No change in price.

Barytes.—Steady and normal call for contract deliveries. A greater number of shipping instructions than in previous week. Inquiries satisfactory. New business routine. Price firm and unchanged.

Blanc Fixe.—Routine movement. Shipments mainly in small-sized lots. Increase in trade looked for later in the month. Price steady.

China Clay.—The market began to broaden a bit with more inquiries appearing. New business was still confined to small lots. Price firm.

Diatomaceous Earth.—Routine demand for the natural material. More interest was being shown in offerings of the purified grade, with sales volume slightly larger than in previous week. Chemically pure material was moving normally.

Fullers Earth.—Business normal. Price firm.

Graphite.—Normal and unchanged.

Gypsum.—Prominent producers reported unchanged market conditions during the period under review. Demand held to previous levels and prices were firm.

Mica.—Buying was less conservative during the period, although the pick-up in interest was a small one. Inquiries were better, however, indicating a possibly improved market in the near future.

Woodflour.—Domestic material was in good call. Shipments were large and steady during the week. Imported product was unavailable.

Naval Stores

The naval stores situation was featured last week by a sharp break in turpentine, the price at Savannah falling on Monday to 33½c. per gallon. The decline of 4 cents was attributable mainly to a falling off in demand, the sharp advance in recent preceding weeks having carried the price up to a level which consumers were not inclined to pay despite what is generally regarded as the strength of the statistical position.

The government remained in the market as a seller of turpentine. Offerings from other sources, though not large, were somewhat freerer than recently and sufficient to have a weakening effect in the absence of any buying interest of consequence. In the case of rosin the prevailing tone was steady, price changes from day to day generally being rather narrow.

Domestic business in rosin was somewhat more active. Consumers were generally disposed to adhere to a very conservative course in making purchases, but an increase was noted in the volume of orders for moderate lots. Export business was quiet though there were reports of occasional inquiries. Receipts in Southern markets were light and are expected to remain so until the new season gets under way. Reports have been heard recently of a shortage of labor for new crop work.

In the Durango area of Mexico climatic conditions during last December were normal, and producers of naval stores were completing the collection of the scrape crop, according to a consular report. The monthly output was estimated at 3,000 gallons of turpentine and about 50 metric tons of rosin. Sales for the month totaled 24,000 gallons of turpentine and 50 metric tons of rosin, all exported to the United States. Estimates of stocks at the end of the year were approximately 9,000 gallons of turpentine and 700 metric tons of rosin. Naval stores producers were permitted to chip the trees by the American system until January 1, 1941; thereafter the Mexican Government required producers to use the French system of chipping.

Naval Stores Exports

Exports of naval stores from the United States during the past two years, according to official statistics, were as follows:—

	1939.	1940.
Gum rosin, 500-lb. bbls.	594,381	327,751
Wood rosin, 500-lb. bbls.	341,285	291,176
Gum spirits of turpentine, gal.	9,841,527	4,998,736
Wood turpentine, gal.	2,022,868	1,830,332
Pine oil, gal.	1,682,163	2,041,351
Tar and pitch of wood, lb.	18,347,068	33,413,894
Sulphate resin, lb.	9,819,353	16,446,841

Turpentine.—There were reports of some increase in the inquiry here, but actual business was apparently limited to unimportant quantities, consumers in many cases being inclined to hold off for further developments. The market was lower.

SAVANNAH, Feb. 7.—Following is a record of the turpentine market for the week:—

	Gallons Cents.	Gallons Sales.	Barrels Receipts.	Barrels Shipments.	Barrels On hand.
Saturday*	...	...	...	...	...
Monday	33½	1,250	5	106	10,328
Tuesday	33½	4,200	387	121	10,589
Wednesday	33½	2,300	39	...	10,628
Thursday	33½	750	6	...	10,634
Friday	33½	600	4	138	10,500

* No trading.

JACKSONVILLE, Feb. 5.—Turpentine stock 14,413 barrels.

PENSACOLA, Feb. 1. — Turpentine stock 10,524 barrels.

Chicago—Feb. 7

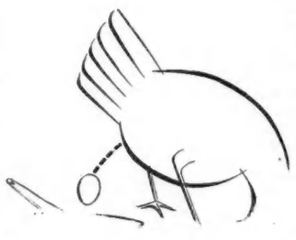
Turpentine quiet. Ruling prices:—Five-drum lots, 48c. per gallon; five wood barrels, 53c.; single drums, 51c.; single barrels, 56c.

Rosin.—No material change in the character of business was noted here last week, but in some quarters an increase was reported in the request for moderate lots of various grades. The market had a steady tone., price changes being narrow.

SAVANNAH, Feb. 7.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted—*Sat.	Mon.	Tues.	Wed.	Thurs.	Fri.
B	...	$1.57	$1.57	$1.57	$1.57	$1.57
D	...	1.64	1.63	1.63	1.62	1.61
E	...	1.64	1.63	1.64	1.63	1.62
F	...	1.64	1.63	1.64	1.63	1.62
G	...	1.64	1.63	1.64	1.62	1.62
H	...	1.67	1.66	1.67	1.70	1.68
I	...	1.73	1.75	1.76	1.80	1.80
K	...	2.00	2.00	1.98	1.98	1.98
M	...	2.07	2.07	2.06	2.07	2.07
N	...	2.25	2.25	2.25	2.25	2.25
WG	...	2.55	2.55	2.55	2.55	2.55
WW	...	2.76	2.76	2.76	2.76	2.76
X	...	2.76	2.76	2.76	2.76	2.76
	Barrels					
Sales	...	248	251	75	229	132
Receipts	...	741	356	229	156	523
Shipments	...	906	740	194	...	362
Stocks	...	...	...	...	...	170,480

* No trading.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You get Crosby Dipentene FRESH! It is run into new galvanized drums immediately after distillation. The mild, pleasant odor of Crosby Dipentene shows its high refinement. The narrow distillation range shows it's highly fractionated. Crosby Dipentene is manufactured under the same rigid technical control and with the same double-check laboratory tests that have given Crosby products national recognition.
Call on CROSBY for quality
Crosby Naval Stores, Inc.
Picayune, Mississippi

JACKSONVILLE, Feb. 5.—Rosin stock 333,611 barrels.

PENSACOLA, Feb. 1.—Rosin stock 55,670 barrels.

Chicago—Feb. 7

Rosin trade slow. Ruling prices in five-drum lots were:—B grade, $2.87 per 100 pounds net; G grade, $2.93; M grade, $3.37; W.W. grade, $4.06.

Other Naval Stores

Pine Oil.—Consumers following a conservative course in making purchases. Market steady.

Pitch.—Demand limited to moderate lots for prompt shipment. Prices maintained.

Rosin Oil.—Consumers purchasing for current needs only. Market steady.

Tar.—Steady contract movement. New business quieter. Prices stationary.

Dry Colors

Alkali Blue.—The market was well maintained by a normal demand that kept supplies moving along routine lines. Price was steady.

Bone Black.—A continued good call featured the market. Inquiries were more numerous. Prices were firm and unrevised.

Carbon Black.—Producers of this color continued to ship it out in heavy volume during the period under review. In some circles it was reported that deliveries were exceeding production. Stocks on hand, however, were 162,000,000 pounds at the end of 1940, compared with 37,000,000 at the end of 1939. The large increase was due to the shutting off of a good part of the export market.

Cadmium Lithopone.—Spot business remained more or less slack during the week but there was a noticeable pick-up in inquiries. Prices remained firm and unchanged.

Carmine No. 40.—The market for this color remained in a good statistical position, although business was not considered active. Demand was normal. Price was steady and unrevised.

Chrome Colors.—Buyers were insistent in their demands. Volume of shipment was well maintained. Prices were firm.

Iron Oxides.—Trade remained better than normal for this time of year. New business was slightly less active, but contract call for deliveries was strong. Prices were firm and unchanged.

Lamp Black.—Contract call remained active. More inquiries appeared. Prices were firm and unrevised.

Mercuric Oxides.—A slightly better market tone was in evidence. Advices from the West Coast indicated that the government was coming into the market for large supplies of both the technical red and yellow colors. Prices were unchanged.

Vermilion.—There was a better interest in offerings of quicksilver vermilion. No price change was recorded.

Varnish Gums

The market for natural resins at domestic centers was still marking time during the period under review. Trade was somewhat quiet but prominent suppliers were firm in their convictions that a pick-up in buying interest was nearby. Preliminary reports from abroad indicated that none of the gums from the Dutch East Indies will be affected by the 25 percent advance in freight rates which is due to go into effect on shipments from the Far East. It was also reported that there was no scarcity of available freight space from primary points.

Synthetic Resins

Ester gum movement was larger last week, although the increased demand for contract shipments did not tend to interfere with steady movement of supplies. There was also a pick-up in the call for deliveries of chlorinated rubber. All prices were firm and unchanged.

Lacquer Materials

A steady volume of orders made their appearance in the market for lacquer materials and solvents last week. Sellers were well booked ahead in many basic materials, and were not inclined to accept all new business or export inquiries. Acetone was a very firm feature, sellers were pressed to make deliveries against existing contracts, and continued to turn down some of the new business. Little material was offered for export, and the scattered business transacted was at premium levels. Butyl alcohol and acetate were taken steadily against contracts. Dibutyl phthalate was firm. A satisfactory demand prevailed for dichlorethyl ether. Ethyl acetate and ethyleneglycol moved steadily. Tricresyl phosphate met with a fairly steady demand. Prices were well sustained, and the tone was firm.

Acetone.—Business moved steadily against contracts, with sellers well booked ahead. Little new export business accepted. Prices firm.

Alcohol, Butyl.—Moderate demand from regular channels. Prices displayed firmness.

Butyl Acetate.—Steady inquiry, and tone of market firm.

Cellulose Acetate.—Demand irregular. Prices without change and tone steady to firm.

Dibutyl Phthlate.—Shipments steady for moderate quantities, and prices hold firm.

Dichlorethyl Ether.—Firm price tone, and business held at satisfactory levels.

Ethyl Acetate.—Buying moderately active. No change disclosed in the prices.

Ethyleneglycol.—Shipments steady. Prices remain firm.

Isopropyl Acetate.—Inquiries and shipments moderate. Prices remain firm.

Methyl Acetate.—Call steady from regular consumers. Prices underwent no change.

Tricresyl Phosphate.—Withdrawals fairly steady against contracts. Market tone firm.

Triphenyl Phosphate.—Call was routine. Pricewise a firm tone prevailed.

Shellac

Russia has bought in the neighborhood of 5,000 packages of shellac in this market. The price consideration was not revealed but it was understood to have been close to the going spot market. Some shellac factors raised the question of the ability of the shippers out of New York to get a British navicert.

Another feature of the shellac market was the notification of an advance of freight rates from the recently prevailing $20.75 per ton to a new figure of $26 per ton. This was estimated to increase transport cost by about ⅜c. per pound, though some said it was ¼c.

Shipping space was declared to be increasingly hard to get out of all ports in India. Inability to get space has led numerous shippers to request an extension of the shipping date specified in existing contracts.

Calcutta cables revealed a fairly steady cost at the source. No change was made in local circles. Demand continued on a fairly satisfactory basis. Volume compared favorably with that in recent weeks.

Glues and Binders

Casein.—The market remained more or less quiet, although producers of the domestic material and importers of the Argentine held to previous quotations. There were unconfirmed reports that the posted prices could be shaded to 12¼c. per lb. Stocks were believed ample.

Glues.—Hide and bone glue quotations remained virtually nominal, although no changes were made. Quotations were very strong and offerings at any price were not made freely.

F.S. Wemyss, Jr., to Active Army Service Feb. 6

F. S. Wemyss, Jr., salesmanager for the W. H. Loomis Talc Corporation, Gouverneur, N. Y., was called to active duty with the field artillery of the U. S. Army for one year, starting February 6. Mr. Weymss, who expected to be stationed at Fort Bragg, N. C., was a first lieutenant in the Reserves, having taken an R.O.T.C. course while matriculating at Princeton University.

"Saran," a plastic manufactured by the Dow Chemical Company, Midland, Mich., was the subject of an address by Amos Ruddock before the Detroit Adcraft Club February 7.

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Montreal Paint Technicians' New Year Party

Seventy-three members and guests of the Montreal Paint and Varnish Production Club gathered January 3 and pleasantly observed the New Year. The club will meet with the local section of the Society of Chemical Industry February 15 in the Hotel Windsor, on which occasion H. Congergood, of the Canada Printing Ink Company, Toronto, will give a talk on "Color."

Cleve. Production Club Discusses Alkyd Resins

The January meeting of the Cleveland Paint and Varnish Production Club was held in Hotel Allerton January 17. Sixty members and guests were present. Dr. Weaver, of the research committee, reported that the group is working on the selection of drying oils, testing under various conditions of humidity and temperature.

Dr. Kenneth E. Martin, of Resinous Products & Chemical Company, gave a talk on "Compositions and Properties of Alkyd Resins." He stated first that their Amberols were quite soon accepted by the trade, and new numbers were quickly checked and used. He went on to explain the chemical formulation and manufacture of various types of resins. He explained what properties of resins and what constituents of resins contributed to those properties such as alkyd percentage, viscosity, topping qualities, mar-proofness, gloss and gloss retention, hazing, solubility and mineral thinner tolerance, waterproofness, flowing, sagging, curtaining, color retention, and durability.

Balto. Paint Club Plans Radio Sales Campaign

Baltimore, Jan. 27, 1941

A series of radio broadcasts aimed at awakening interest in the Spring painting season and sponsored by the Baltimore Paint, Varnish and Lacquer Association, was urged by Lawrence Keefer, of the national association, at the regular monthly dinner meeting here last week. Mr. Keefer played a phonograph record of a broadcast prepared by the parent group designed to call the attention of listeners to the importance of keeping their homes in good condition by proper painting, color and styling. The local unit appointed a committee to raise the estimated $1,000 to sponsor the broadcasts.

DuPont Paint 'Test Farms' Panels Doubled in 5 Years

Paint panels exposed on du Pont "test farms" have been increased from approximately 30,000 to 60,000 in the past five years, with more than a million periodic inspections each year, according to G. H. Westcott, paint technologist for E. I. du Pont de Nemours & Co., Wilmington. The panels range in type from tinplate to steel ½-inch thick and from venetian blinds to freight car sidings. Prolonged exposure tests in various climates are conducted on every shade of paint. Expansion of the testing program is a result of the practical benefits provided by this system of pretesting.

Shellac Use Described

A new booklet, entitled "How to Use Shellac for Best Results," has been issued by the Shellac Information Bureau. In it is assembled useful data on shellac as a floor finish, as a protective coating for fine furnitures, and as an economical finish for general interior woodwork. The work in general describes what shellac will do, and presents complete directions for thinning shellac for use. A copy of the booklet may be obtained by communicating with the Shellac Information Bureau, 70 Pine street, New York, mentioning the REPORTER.

Paint Dealers Ass'n Install Officers for 1941

The Paint Dealers Association of New York has installed the following officers:—Chairman, Louis Permutter; president, Daniel Leon; vice-president, Henry Weiner; treasurer, Joseph Orszag, and secretary, Gordon D. Polesie.

Paint Exchange Club to Meet

The Paint and Varnish Exchange Club will meet in the Brooklyn Engineers Club February 26. The guest speaker will be Louis A. Melsheimer, of the United Color & Pigment Corporation, N. J., who will discuss "Pigment Problems in the White Goods Field."

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Paint Industries Show Exhibitors

Southern States Federation Associates Convention

Roosevelt Hotel, New Orleans, La., February 13 to 15, 1941

Aluminum Co. of America
Booth 8

The Aluminum Company of America exhibit will contain descriptive information pertaining to the technicalities of the various aluminum pigments used in the paint industry. Representatives of the company present will be W. B. Roberts, from Pittsburgh; R. A. Learnard, from New Orleans; and Fred W. Conrade, from Atlanta, Georgia.

Archer-Daniels-Midland Co.
Booth 7

The exhibit of the Archer-Daniels-Midland Company will consist of the drying oils manufactured by the company for use in the formulation of protective coatings. Several representatives will be present at the display to discuss paint, varnish, and enamel manufacture with visitors.

Bakelite Corporation
Booths 13, 14, and 15

The synthetic resins manufactured by the Bakelite organization for use in protective coatings will be shown in this space. Included will be specimens of its new C-9 series, based on the new raw material, "Carbic" anhydride.

Bennett Manufacturing Co.
Booth 17

An assortment of steel containers for the paint industry, including its five-gallon steel pails and fifty-five-gallon drums, will be displayed at the Bennett exhibit. Representing the firm at the booth will be Maumus Claverie, vice-president; L. Gagnet, jr., New Orleans representative; and John Gifford, Chicago representative.

Binney & Smith Company
Booth 5

The Binney & Smith Company will display its comprehensive line of carbon black and precipitated oxides of iron for the paint industry together with lacquer bases and other specialties in this space. K. E. Burgess, technical director of the Magnetic Pigment Company; and F. A. Bonstedt of the sales department of Binney & Smith Company will represent the firm at the show.

Calcium Carbonate Co.
Booth 9

An assortment of calcium carbonate for use in putties, and other paint materials will be shown by the Calcium Carbonate Company. Featured will be the firm's "Micropaque," a domestic material having many of the characteristics of chalk formerly imported.

J.H. Day Company
Booth 19

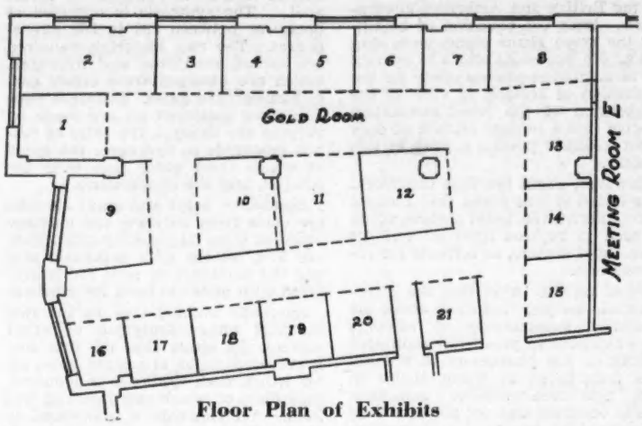
One of the five-inch by twelve-inch, high-speed, three-roller mills, manufactured by the J. H. Day Company, will be on display in this area. Present at the New Orleans meeting to represent the company will be M. R. Sentman, vice-president; A. H. Hildebrand, demonstration engineer; and R. J. Caudle, southern representative.

Dicalite Company
Booth 6

The products of the Dicalite Company to be most prominently displayed at New Orleans will be Dicalite "L" Grade, Dicalite "PS" Grade and Dicalite white filler. Officials who will attend the convention are A. G. Frankenhoff and E. T. Frankenhoff, vice-presidents of the Dicalite Company and A. P. Fowler, jr., manager of the New Orleans branch of the company.

Falk & Co.
Booth 12

A number of special products developed by the Falk laboratories will be shown in this booth. Prominent among the specimens will be "Falkomast," a new non-yellowing caulking compound base. The exhibit will also contain several "Piccolyte" resins, being sold by Falk & Co. for the Pennsylvania Industrial Chemical Company, and a variety of types of dehydrated castor oil put out by the Baker Castor Oil Company. The exhibit will be in charge of David Lewis, vice-president of Falk & Co., and manager of the Chicago office.



Floor Plan of Exhibits

National Carbon Company
Booth 11

The National Carbon Company in this area will display and demonstrate its model "X-1-A" carbon arc unit for the accelerated weathering of surface coatings. A series of panels exposed in the unit will also be shown. In attendance in our booth will be C. G. Ollinger, C. H. Christensen and H. F. Anderson.

Newport Industries, Inc.
Booth 10

A display built around samples of the products of Newport Industries, Inc., has been prepared for this space. Included in the exhibit will be the zinc resinates made by the company, and panels to show the results obtainable with the resinates in paints, varnishes, and enamels. Various naval stores products will also be prominently displayed.

Reichhold Chemicals, Inc.
Booth 20

Reichhold Chemicals, Inc., will display its complete line of synthetic resins and chemical colors at the paint show. Among such products are "Beckamine" and "Super-Beckamine," "Beckosol," and "Beckamine" resins. W. J. Deeks, district manager at Cincinnati and P. L. Swisher, sales manager, will be in attendance.

Southern Shellac Mfg. Co.
Booth 21

A description of the uses of shellac will be presented at this display. Also shown will be numerous samples of shellac. Literature concerning the material will be available at the booth from Harry C. Smith, president of the company; E. Cordon, chief chemist; P. A. Greene, sales representative; and R. C. Allen, of the Thompson-Hayward Chemical Company, all of whom will be present at the show.

Hazardous Articles Hauling Rules Parley Set for Feb. 20

OPD Washington Bureau
February 6, 1941

The Bureau of Service of the Interstate Commerce Commission will hold an informal conference in Washington February 20 to discuss proposed amendments to the regulations for the transportation of explosives and other dangerous articles by rail and truck (docket No. 3666).

The proposed amendments are generally minor in nature, and many of them are simply to correct typographical and clerical errors in the print issued last August. The other changes have been requested by various shippers or carriers. Probably the most novel is a proposal that the I.C.C. authorize the use of single-trip light steel drums for the export of gasoline or other liquids with a flash point of less than 20 degrees.

'Uniroll' Paint Mill Studied by N.Y. P.V.P.C.

The construction and operation of the 'Uniroll' paint grinding mill was described by T. Cornelius, manager of the paint department of the National Rubber Machinery Company, Clifton, N. J., before the February meeting of the New York Paint and Varnish Production Club. The mill was characterized as a one-roll mill incorporating several newly patented features which reduce the hit-and-miss methods generally associated with wet grinding.

An important feature of the new mill was said to be the grinding bar, the pressure of which against the roll is closely controlled by the use of a fluid pressure system. The grinding bar was also said to be unique, since it has an extended vane which follows the periphery of the roll at various angles. It is claimed that these angles of nip create a wedging action of the fluid passing the grinding face, and therefore varied viscosotites are taken care of.

Nicholas L. Deutsch, of Glyco Products Company, this city, spoke on "Polyhydric Alcohol Esters and Other Products Useful in Paints and Varnishes." He pointed out that large-scale expansion in the field for esters only started about five years ago. The opportunities for esters in the paint field are unlimited, he said.

Fred H. Bauman, assistant chief of the testing laboratories for the New Jersey State highway department, discussed traffic paint and its application in that State. He related that not so many years ago traffic paint was applied with little regard for quality, durability and visibility. Gradual development by research, however, has resulted in the formulation of various specifications for traffic paint.

'Workers' Health Theme Of Hygienists Meeting

Consideration of "workers' health in defense industries" will feature sessions of the fourth annual meeting of the National Conference of Governmental Industrial Hygienists to be held at the National Institute of Health on February 17-18. The meeting this year will be a joint session with the subcommittee on industrial health and medicine of the Federal Security Agency and the division of industrial hygiene of the National Institute of Health.

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Paint Contractors Discuss Many Industry Problems

St. Paul, Minn., Feb. 7, 1941

The Painting and Decorating Contractors of America, at its fifty-seventh annual convention in the Lowry hotel here, took action on a variety of industry matters, including the painting of national defense cantonments and incidental housing, employer-employee relations, maintenance work, shop management, national standards of apprentice training and development of increased promotional activity by small contractors.

Ben Wickberg, president, and George S. Stuart, national executive director, in their annual reports, told of direct contacts with government officials in Washington and of their cooperation with the National Paint, Varnish and Lacquer Association, which resulted in decisions to paint the exteriors of all cantonments, as well as many interiors.

Early construction specifications of the army, it was pointed out, had utterly ignored protective painting. The association is campaigning aggressively to get the privilege of bidding on national defense painting work for established contractors, and progress in this regard was reported.

Michael McCarthy, reporting as chairman of the national trade board, announced that for the first time on record both employer and employee groups in the painting craft are now sitting together for discussion of labor problems.

Further extension of vocational training through full utilization of national standards of apprenticeship was voted, and the association decided to compile a new text book for use by instructors in the nation's training schools where painting courses are conducted.

Robert T. Williams, chief of the industries section of the Federal Housing Administration in Washington, urged greater use by manufacturers, dealers and contractors of the F.H.A. plan of time payments for modernization and painting jobs.

The Mandis Society, composed of affiliated manufacturers, elected John Schroeder, of Pratt & Lambert, president, and Milton K. Pine, of the Muralo Company, secretary-treasurer. George Merwin, of Devoe & Raynolds Company, former president, becomes vice-president. L. R. Bradley, of the Periseal Company, and Hugh Conley, of the Eagle-Picher Lead Company, were named directors.

Hard-Board Antitrust Suit to Be Pushed

Officials of the United States Attorney General's office will move February 11 in United States District Court, this city, for quick trial in a civil action against the Masonite Corporation, the Celotex Corporation, the Johns-Manville Sales Corporation and seven other defendant corporations, charging monopolization and price-fixing in violation of antitrust laws in the hard-board industry. The action was filed last March 11.

The government stated that since the action was filed numerous complaints have reached the antitrust division that the practices charged are still continuing. The cost of hard-board has risen from $30 per 1,000 square feet on September 1, 1940, to $35 at present, according to officials of the division. Another reason for the plan to request a speedy trial is that hard-board, used by both the Army and Navy, is a vital defense material.

Dewey & Almy to Appeal Patent Suit Decision

In the suit of the United States Rubber Company and the Dewey & Almy Chemical Company, East Cambridge, Mass., against Mimex, Inc., alleging infringement of U. S. patents Nos. 1,582,219 and 1,765,134, Judge Galson in the Court of First Jurisdiction has ruled against the plaintiffs on the ground of invalidity. The decision is expected to be appealed.

John D. Lewis, Inc., synthetic resin manufacturer, Providence, R. I., has added Clifford A. Phalen to its organization as a sales technician specializing in the use of resins and gums in the manufacture of paint, varnish and lacquer.

New Solvents Role in Chemical Progress

—Continued from page 5

shipping space and foodstuffs, operation of the process was transferred to Toronto, Canada. An old distillery was later acquired at Terre Haute, Ind., and when the United States entered the war, a second distillery was purchased in that city. Both were operated by a company jointly owned by the British and American governments. With the cessation of hostilities the Terre Haute plants were shut down. No one could afford to operate the fermentation process solely for the production of acetone, in view of the competition of the wood distillation product and a normal market of only about 4,000,000 pounds a year in this country.

However, about the time the World War ended it was found that butanol and its derivative, butyl acetate, could be used to replace fusel oil and its ester, amyl acetate, as solvents for nitrocellulose.

Based on the belief that the nitrocellulose lacquer industry could be expanded substanitally if solvents were available in practically unlimited quantities, the production of butanol was undertaken at Terre Haute in 1920, and the acetone simultaneously obtained was for the first time considered to be the less important material. Fusel oil, from which amyl acetate is made, was obtained solely as a by-product of ethyl alcohol distillation, and the amount of fusel oil produced was therefore definitely limited and the total available in all countries probably did not exceed 5,000,000 pounds per annum.

At that time nitrocellulose lacquers were chiefly used for finishing small metal articles. Practically none of the paint and varnish manufacturers produced lacquer. When they wanted clear lacquer to sell with aluminum or bronze powder for the gilding of steam radiators, picture frames and other small items, it was purchased from one of the dozen lacquer producers. However, this situation changed when in 1924 the availability of butanol and butyl acetate made possible the initial large-scale utilization of nitrocellulose lacquers for finishing automobiles. The first successful application clearly indicated to the paint and varnish industry that lacquer was a finishing material which should be added to its line if sales of its finishing materials to the automobile industry were to be continued.

While the production of automobiles is not a part of the chemical industry, nevertheless the advent of lacquer had a great influence on the mass production of these mechanical contrivances. It cut down the finishing operations from weeks to hours, so that the production line could be kept in motion right through the finishing room, and resulted in substantial savings in labor and space. Imagine the acres of floors which would be required to finish automobiles if production were over 100,000 a week and half a month were needed to paint a car properly! It was not long before nitrocellulose lacquer finishes were used in other industries, such as the manufacture of refrigerators and furniture.

Synthetic Solvents

This huge and rapid growth in the consumption of lacquer and butanol and butyl acetate, the chief solvents used in it, had several important influences on chemical development. In the first place there began to appear competing solvents, such as the ethers of ethyleneglycol and their acetates, and amyl alcohol produced from pentane and its acetate. The production of synthetic butanol was also started in this country. Plants were installed to produce isobutyl alcohol by high-pressure synthesis from carbon monoxide and hydrogen, and secondary butyl and amyl alcohols from butylene and amylene, respectively. A new butanol fermentation, using blackstrap molasses in place of corn was developed.

The ethers of ethyleneglycol are made synthetically with ethylene as the raw material. This is converted into the chlorhydrin, which when treated with a base and subsequently distilled forms ethylene oxide. The reaction between ethylene oxide and ethyl alcohol produces the monoethyl ether of ethyleneglycol. The acetate of this is made by the usual esterification process.

Amyl alcohol is produced by first chlorinating pentane and then treating it with caustic soda. Isobutyl alcohol is made in the same type of plant which is used for the synthetic production of anhydrous ammonia or methanol. The synthesis is operated at pressures between 300 to 900 atmospheres. The raw materials required are carbon monoxide and hydrogen, which are obtained from either coal or hydrocarbon gases. Different alcohols from methanol up are made by varying the catalyst, the ratio of carbon monoxide to hydrogen, the speed at which these gases pass over the catalyst, and the temperature.

Secondary butyl and amyl alcohols are made from butylene and amylene obtained from oil-cracking stills. They are first treated with sulphuric acid and the sulphates in turn are hydrolyzed with water to form the alcohols.

Synthetic butanol uses as the raw material either acetylene or ethyl alcohol. In either case the first step is the preparation of acetaldehyde, after which each synthesis is identical, regardless of which raw material was used. Acetaldehyde is condensed to aldol. The aldol is converted in the presence of a dehydrating agent to crotonaldehyde, which on hydrogenation goes through butyraldehyde to butanol.

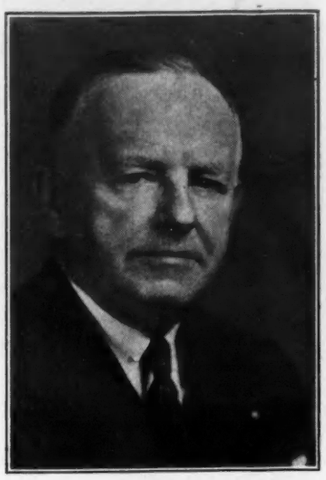
The liquid portion of nitrocellulose lacquers contains not only butanol, butyl acetate, and other solvents with similar evaporating rates which have previously been discussed, but diluents and lower-boiling solvents. Formerly toluene was the chief diluent. However, in recent years the petroleum industry has developed special cracked petroleum fractions approximating toluene in evaporation rate and solvent power. These are now largely used in nitrocellulose lacquer, either with or without toluene. The chief lower-boiling solvent used in nitrocellulose lacquers is ethyl acetate, but in this case, too, competitive materials derived from petroleum gases have been made. These are methyl-ethyl ketone, which is produced by the oxidation or dehydrogenation of secondary butyl alcohol, and isopropyl acetate, an ester of isopropyl alcohol made from propylene gas.

Besides solvents and diluents, nitrocellulose lacquers require resins and plasticizers. Early lacquers used natural dammar gum as the chief resin. The production of synthetic resins as a partial or complete replacement for dammar followed. The more important of these are ester gum and the glyptals. The former is made from glycerin and rosin, and the latter from glycerin and phthalic anhydride. The glyptals can be modified in many ways, including incorporation of various oils in the resin and inclusion of such acids as maleic and sebacic, which also react with the glycerin.

The important plasticizers used are dibutyl phthalate and tricresyl phosphate, both synthetic materials.

A few figures on the United States production of some of the chemicals which enter into nitrocellulose lacquer, as given in the United States Tariff Commission report for 1939, best illustrate the growth of industries which may be attributed to the production of butanol.

In 1939 127,000,000 pounds of butyl alcohols were produced, of which about 73,000,000 pounds were normal butanol. A considerable portion of the various butyl alcohols was converted into butyl acetates, as the Tariff Commission figures show a production of approximately 78,000,000 pounds of these. The figure for ethyl acetate is 68,000,000 pounds. Approximately 8,000,000 pounds of dibutyl phthalate were made in 1939. It is misleading to give here the production figure for the alkyd type resins or glyptals, for a good part of the total is used in finishes other than nitrocellulose lacquers. However, approximately 76,000,000 pounds of such resins were produced in 1939, of which 70,000,000 pounds were made with phthalic anhydride and 6,000,000 pounds with maleic anhydride. This is a rapid growth for an industry which turned out only 10,000,000 pounds in 1933.



Hal Howe

Who Was Honored at a Dinner Given Recently by the Indianapolis Paint, Varnish and Lacquer Association, in Recognition for His Twenty-Five Years as Secretary and Treasurer of the Club.

Synthetic Finishes

The rapidity with which lacquer could be applied brought forth an almost concerted effort to make products which might compete with it or could be used to replace the slow-drying oil varnishes and enamels. Finishes made from the glyptal resins containing no nitrocellulose were among the first developments along these lines. They are made in the form of air-drying and baked finishes. The latter are being used on a great number of automobiles and there compete with lacquers. Baked enamels cannot contain pigments or colors which will be affected by heat.

The drying of oil paints and enamels has been greatly accelerated by the addition of various resins, including not only the glyptals but also those made by reacting phenol and cresol with formaldehyde. As a result we now use a quick-drying product termed "four-hour enamel" instead of one which used to take a day or more to dry.

One of the more recent developments in resins for synthetic finishes concerns those of the urea-formaldehyde type. Products of this kind are practically colorless and find large application where white or light pastel shades are desired. These resins are often used in conjunction with the alkyds. One of the important modifications of the urea-formaldehyde resins involves the use of butanol, which both takes part in the reaction of making the resin and also is one of the necessary solvents in the finish.

It is a little difficult to pick out the exact figures for the amount of phenol-formaldehyde and cresol-formaldehyde resins used in finishing materials. The Tariff Commission report shows that 10,000,000 pounds of cresol-formaldehyde resins and 28,000,000 pounds of phenol-formaldehyde resins for uses other than casting and molding were made in 1939. A considerable portion of these undoubtedly went into finishing materials.

The report also shows that more than 16,000,000 pounds of urea-formaldehyde resins were produced in that year, probably divided about equally between molding and finishing use. However, the utilization of resins of this type for finishes is growing rapidly, so that for 1940 it seems probable that more of this resin is a component of finishes than of molding powders.

(To be continued)

R. Nagel Joins Army

Robert Nagel, secretary of the Ellicott Paint Company, Buffalo, has volunteered for service in 209th Antiaircraft Coast Artillery and is expected to leave Buffalo about February 15. Mr. Nagel has been an active figure in affairs of the Buffalo Paint, Varnish and Lacquer Association, serving as chairman of the golf committee and chairman of the "Ladies' Night" party.

Reichard-Coulston, Inc., dry colors, this city, has moved its offices to 15 East 26th street.

Oils, Fats, and Waxes

Linseed Oil Reduced by Crushers—Narrow Changes in Cottonseed Oil and Lard Futures — Refined Fish Oils Up Again —Chinawood Oil Higher—Trade Remains Quiet

Quiet conditions continued to prevail in the market for miscellaneous oils, fats and greases last week. In certain instances a fair volume of orders was received from consumers who were in need of fresh supplies, but as a rule purchasing was along the same hand-to-mouth lines noted in the previous week, many buyers still being disinclined to provide for future requirements in view of the existing uncertainty concerning legislative and political affairs as well as the continued absence of any pronounced rallying tendency in the markets for cottonseed oil and lard futures after the recent setback in prices. Offerings of many products remained light, however, and the market in general had a steady or firm tone, the trend of prices again being upward although there were comparatively few changes.

Vegetable Oils

Castor, Dehydrated.—Steady contract movement. New business more active. Quotations on drums advanced one point.

Chinawood. — Stronger here with situation abroad. Domestic quotations advanced ¼c. Shipment and spot offerings light. Inquiry fairly active.

Coconut.—Crude and refined firm at recent advance. Trade quieter owing to easier position of competing products.

Corn.—Crude offerings light and market firm. Fair inquiry. Refined in moderate demand and steady.

Cottonseed.—Edible oil quotations maintained by refiners. Fair movement of moderate lots.

Oiticica.—Somewhat better inquiry. Spot supplies generally light. Market steady.

Olive.—Steady inquiry for denatured and edible oil. Supplies light and diminishing. Tone firm. According to a report from Rome, the International Institute of Agriculture estimates the world's production of olive oil during the 1940-41 season at only 7,600,000 quintals, or 3,000,000 quintals less than in the previous season.

Peanut.—Tone shade easier. Offerings small. Quotations nominal. Legislation setting up marketing quotas for peanuts introduced in Congress last week. Similar legislation presented last year not passed.

Perilla.—Market quiet in absence of increased offerings. Quotations nominal.

Soybean.—Less active owing to setback in beans and competing oils. Quotations shaded ⅛c. to ¼c. by some sellers.

There was no trading in soybean oil futures on the New York Produce Exchange, from February 1 to February 7, inclusive. Following is a price record for the week:—

	Cents per pound in tanks		
	High.	Low.	Close.
May	...	...	5.25@5.65
July	...	...	5.30@5.65

Markets at Other Centers

San Francisco, Feb. 5.—Vegetable oils ruled firm. The more important items on the list have been active.

COCONUT.—Further business reported at 3 cents per pound in tankcars, f.o.b. Pacific Coast ports and/or mills, with 3⅛c. asked. Buyers still resisting any price above 3 cents. Copra, 1.80c. to 1.85c.

CHINAWOOD. — Firmer at 26¼c. per pound in tankcars, f.o.b. Pacific Coast ports, with actual sales noted at this level. Business good.

OITICICA.—Raw liquid oil quoted 19c. per pound in drums, f.o.b. San Francisco. Tankcars, 18c. Market strong.

BABASSU.—Quoted 5⅞c. to 6c. per pound in tankcars, f.o.b. Pacific Coast mills.

COTTONSEED. — Domestic bleachable oil 6½c. per pound in tankcars, f.o.b. northern California mills.

PERILLA.—Spot 16½c. per pound in tankcars, f.o.b. Pacific Coast. Drum lots, 17½c. New crop February forward shipment from Japan, quoted at 16c. per pound, subject to arrival from Japan.

SESAME. — Quoted 7⅝c. to 7¾c. per pound in tankcars, f.o.b. San Francisco.

Price Changes

Advanced

Beeswax, white, bleached, 1½c. per lb.
Castor oil, dehydrated, drums, 1/10c. per lb.
Chinawood oil, ¼c. per lb.
Lard, 5c. to 10c. per 100 lbs.
Menhaden oil, refined, 3-10c. per lb.
Sardine oil, refined, 3-10c. per lb.

Reduced

Carnauba wax, No. 3 chalky, 2c. per lb.
No. 3 North Country, 3c. per lb.
No. 1 yellow, 3c. per lb.
No. 2 yellow, 3c. per lb. refined, 1c. per lb.
Japan wax, 1c. per lb.
Linseed oil, 2-10c. per lb.

Comparative Values

Index numbers compiled from twenty-three typical oils, fats and greases on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
118.6	118.2	103.6	106.6

Market news that may have developed after this report was sent to press will be found on page 4.

Chicago, Feb. 7.—Vegetable oils in fair demand.

COCONUT.—Refined, edible oil, 8c. to 8¼c. per pound, drums, car lots; and 8½c. to 8¾c., drums, less than car lots.

CORN.—Crude, low acid, 6¾c. to 7c. per pound. Refined, edible oil, 8¼c. to 8½c. per pound, drums, car lots; and 3¾c. to 9c., drums, less than car lots.

SOYBEAN. — Crude, 5c. to 5¼c. per pound.

The market for soybeans on the Chicago Board of Trade was irregular. Trading quiet. Following is a soybean price record, per bushel, for the week:—

	High.	Low.	Closing Feb. 7.	Closing Jan. 31.
Cash, No. 2.	$1.06½	$0.98½	...	$0.99
May	.96½	.93⅝	.95¼	.95¼
July	.92⅞	.90¼	.91⅞	.91⅝

Linseed Oil

Flaxseed prices irregular. Linseed oil reduced. Meal steady.

Flaxseed—DULUTH, Feb. 7.—Flaxseed prices have taken a rather heavy tumble on weakness in other grains. During the week there has been some buying for storage here for shipment to the East in the Spring.

The week's closing price range was as follows:—

	Cash.	May.	July.
Saturday	$1.73½	$1.68½	$1.65⅝
Monday	1.71⅝	1.66⅝	1.64
Tuesday	1.71½	1.66½	1.64
Wednesday	1.74	1.69	1.66⅝
Thursday	1.75	1.70	1.69
Friday	1.77¾	1.72⅝	1.70⅝

Crop movement in bushels follows:—

	Receipts 1941.	Receipts 1940.	Shipments 1941.	Shipments 1940.
This week	84,000	40,600	21,000	43,400
Since Sept. 1.	8,486,800	2,821,600	1,388,000	1,733,230

WINNIPEG, Feb. 7.—The week's closing flaxseed price range was as follows:—

	Cash.	May.	July.
Saturday	$1.51	$1.53½	$1.51¼
Monday	1.48½	1.50⅝	1.48⅝
Tuesday	1.52½	1.55	1.53
Wednesday	1.55	1.57¼	1.55½
Thursday	1.55	1.57¼	1.55¼
Friday	1.53⅝	1.55⅝	1.53½

BUENOS AIRES, Feb. 7.—Flaxseed, April, 70¼c. per bushel. Exports this week 339,000 bushels, all to the United States. Total since January 1, as follows:—

To—	Bushels This year.	Bushels Last year.
United States	1,568,000	2,615,000
United Kingdom	279,000	2,412,000
Continent	4,000	2,732,000
Orders	.....	598,000
Others	129,000	51,000
Totals	1,975,000	6,408,000

Visible Supply

	Bushels.
Last week	4,724,000
Previous week	4,331,000
Last year	3,543,000

Linseed Oil.—The market had an easier tone owing to recent weakness in flaxseed quotations in domestic markets and some easing of freight rates on flaxseed from South America to this country though import costs still remain far above normal. Quotations on linseed oil were reduced two points by crushers to 8.8c. to 9.0c. per pound in tankcars. There was little to record in the way of activity so far as new business was confined to raising flax will have to be changed or hundreds of farmers in that section will refuse to participate in the 1941 AAA program.

The week's closing price range was as follows:—

	Cash.	May.	July.
Saturday	$1.73½	$1.68½	$1.65⅝
Monday	1.71⅝	1.66⅝	1.64
Tuesday	1.71½	1.66½	1.64
Wednesday	1.74	1.69	1.66⅝
Thursday	1.75	1.70	1.69
Friday	1.77¾	1.72⅝	1.70⅝

Crop movement in bushels follows:—

	Receipts 1941.	Receipts 1940.	Shipments 1941.	Shipments 1940.
This week	44,987	1,282	886	837
Since Aug. 1.	6,041,639	4,372,517	4,355,722	3,951,687

MINNEAPOLIS, Feb. 7. — Declining prices worried farmers and country shippers so the inflow of flax increased over the weekend. Demand was good for anything that tested better than 50 pounds in weight and offers were easily disposed of. Most of the northern seed moved to diversion points and sold for shipment to Duluth.

Although freight rates from Argentina show signs of easing, crushers still are inclined to accumulate some domestic seed at lake ports in case of any change in the situation. Mills along the lake shore are fairly well supplied for current requirements but are using more seed than they figured on and want a supply available for prompt shipment in case lake navigation happens to be slow in opening. The general opinion is that the shiping season will open early this year.

According to a report from Wimdom, Minn., regulations of the AAA relative

Current prices on animal, vegetable, and fish oils (under Oil), fats, and greases (under Grease) are given in the alphabetical list of prices beginning on page 7

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Available in either cake or flake form
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cerned, many consumers and dealers still being disposed to hold off for further developments. The movement to consumers on contracts previously placed was steady and liberal, however, and the production at the mills continued to move out promptly. Cash flaxseed was in good demand in Northwestern markets and offerings were readily absorbed. The movement of flaxseed to market in the Argentina in recent weeks is said to have been hampered by excessive rainfall.

MINNEAPOLIS, Feb. 7.—Linseed oil market quiet though there has been a slight gain in trade volume as compared with late January. Shipping instructions are good and crushers are still running at 100 percent of capacity without being able to accumulate any supplies of consequence.

Quotations on carload lots, f.o.b. Minneapolis, tankcar lots, 8.8c. per pound; cooperage, car lots, 9.5c. per pound; warehouse lots, 9.9c. per pound.

Shipments of oil in pounds were as follows:—

	1941.	1940.
This week	3,700,000	2,280,000
Since Sept. 1	75,530,000	68,020,000

SAN FRANCISCO, Feb. 5.—Some business is currently in effect for new crop California linseed oil, to be delivered from May forward, although the movement is apparently not substantial yet. Quoted:—Tankcars, 9c. per pound; drum car lots, ex-mill, 9.7c.; drum lots, ex-warehouse, 10.1c.

Cake and Meal.—A steady tone prevailed. Meal moved steadily into consuming channels on contracts. New business quieter.

MINNEAPOLIS, Feb. 7.—Linseed meal easy. For the first time in weeks the resellers have lots to sell below crusher quotations.

Quotations on carload lots, f.o.b. Minneapolis, 100-pound sacks, $29 per ton.

Shipments of meal in pounds were as follows:—

	1941.	1940.
This week	8,329,000	3,040,000
Since Sept. 1	193,021,000	106,260,000

Cottonseed Oil

Refined cottonseed oil futures irregular within small limits in the local market. Trading quiet. Cottonseed products slightly easier in some parts of the South.

Cottonseed Oil.—The market here for refined oil futures was a rather small affair last week. There was nothing stimulating in the action of outside markets, and traders in many instances were disinclined to add to their commitments on either side of the account. Prices were irregular, changes being small. Switching from near to distant positions was something of a feature of the trading. March was switched to July at 20 points difference, and to September at 25 points. May was switched to July at 10 to 11 points difference, and to September at 15 points. July was switched to September at 5 points difference. The open interest in the market on February 4 was 2,787 contracts.

Crude oil was slightly easier in parts of the South, with few transactions noted. Offerings were light and it was reported that mills in some sections were closing down for the season, having finished operations at an unusually early date. Live hogs were easier early in the week, but the markets turned firmer later on. Receipts of hogs in the principal Western centers for four days of the week aggregated 236,400 head, against 289,600 head in the same time last year. The weight of the hogs received in Chicago during the week ended February 1 averaged 245 pounds, against 240 pounds in the previous week and 237 pounds in the week before that. Stocks of lard in Chicago increased only 3,365 pounds during January.

Trading in bleachable prime Summer yellow cottonseed oil futures on the New York Produce Exchange from February 1 to February 7, inclusive, comprised 448 contracts, a total of 26,880,000 pounds. Following is a price record for the week:—

	Cents per pound in tanks		
	High.	Low.	Close.
March	6.46	6.33	6.44@6.46
May	6.56	6.40	6.55 sale
July	6.66	6.50	6.65@6.67
September	6.72	6.57	6.71@6.72

Crude, Southeast, .65¼c. Nom.

Current prices on animal, vegetable, and fish oils (under Oil), fats, and greases (under Grease) are given in the alphabetical list of prices beginning on page 7

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Chicago, Feb. 7.—Cottonseed oil fairly active. Refined, edible oil was 7¾c. to 8c. per pound, barrels, car lots; and 8½c. to 8¾c., barrels, less than car lots.

Cake and Meal.—Southern markets were reported as generally quiet so far as new business was concerned, though contract shipments were said to be holding up. The tone in some sections was slightly easier.

Markets at Other Centers

Atlanta, Feb. 6. — Cottonseed meal weaker; 8 percent quoted for March at $27 per ton. Spot meal is $28 to $28.50 per ton. Considerable 8.75% peanut meal in southern Georgia and Alabama is reported a factor in the weakness of cottonseed meal. Peanut meal is selling at producing points at $21 per ton. Prime crude cottonseed oil, 5.25c. per pound.

Memphis, Feb. 6.—Crude cottonseed oil dull. Buyers and sellers continue indifferent. Last trades at 5⅜c. per pound, Valley basis. Meal, 41 percent, $26 per ton, Memphis basis. Slab cake, $23 per ton, Valley basis. Tone of meal market steadier after recent weakness. Hulls, $8 per ton sacked; $5.50 in bulk, Memphis basis. Some mills in this territory now closing down for the season at an unusually early date. Closing cottonseed meal quotations on the Memphis exchange were as follows:—

	Jan. 30.	Feb. 6.
March	$24.65@24.85	$24.45@—
May	24.35@24.60	25.00@25.15
July	24.10@24.30	24.50@25.00
September	23.50@23.75	23.75@24.25
October	23.35@23.70	23.50@24.25

Closing soybean meal futures:—

March	$22.65@23.00	$22.50@23.00
May	22.60@23.00	22.50@23.15
July	22.50@22.85	22.55@23.00
October	21.50@22.10	21.75@22.50

Fatty Acids

Caprie Acid.—Consumers disinclined to purchases in advance of current needs.

Caproic Acid.—Fair movement of moderate lots to local and other consumers.

Castor Oil.—Makers of cosmetics and shampoos in market for moderate lots.

Coconut Oil.—Strength of raw material reflected in somewhat better demand.

Cottonseed Oil. — Trade quieter owing to recent setback in raw material.

Myristic Acid.—Fair request in a jobbing way. Market tone steady.

Red Oil.—Increased movement to local and outside consumers noted. Tone firm.

Soybean Oil.—Demand curtailed by easier position of basic material.

Stearic Acid. — Steady contract movement. New business fairly active. Market steady.

Chicago—Feb. 7

Fatty acids firm and the general aspect of the market is healthy.

RED OIL. — Distilled or saponified, tanks, 6¾c. per pound.

STEARIC ACID. — Distilled, single press, 9½c. to 10½c. per pound; double press, 10c. to 11c.; triple press, 12¾c. to 13¾c.

OTHER FATTY ACIDS.—Corn oil, double distilled, 8¼c. to 8½c. per pound, tankcar; coconut oil, acidulated, 9¼c. to 9½c. per pound, tankcar; cottonseed oil, double distilled, 7c. to 7¼c. per pound, tankcar; settled cottonseed soap stock, 60-62 percent basis, 2½c. to 2¾c.; boiled down soap stock, 65 percent basis, 3½c. to 3¾c.; cottonseed foots, 50 percent basis, 1⅜c. to 1½c.

Fish Oils

Menhaden.—Local situation continued to strengthen. Prices up three points. Nominal at the rise.

Sardine.—Quotations on refined oil advanced three points owing to strong position of crude. Trade quieter.

Sperm.—Fairly active in a jobbing way. Prices maintained.

Whale.—Purchasing of refined oil generally limited to comparatively small lots of spot product.

Markets at Other Centers

Baltimore, Feb. 6.—Small lots crude menhaden oil reported sold recently at 35c. per gallon. North Carolina boats report only small catches and are expected to stop for the season by the end of this week.

San Francisco, Feb. 5.—The current season's production of fish oil is barely more than two-thirds the 1939-40 seasonal figures at this date and with the closing period in northern California only ten days off, no important additions are going to be made to the sardine oil supply. Possibly a tankcar or so of oil moved last week.

Average daily takings of raw fish in the Monterey district last week figured around 1,500 to 2,000 tons, with the San Francisco Bay area doing only a quarter of this.

Fats and Greases

Grease.—Inquiries generally limited to comparatively small lots for prompt shipment.

CHICAGO, Feb. 7. — Choice white grease, 4½c. to 4¾c. per gallon; yellow, 4¼c. to 4⅜c.

Lard. — Domestic trade somewhat more active. Export movement light. Price changes moderate.

CHICAGO, Feb. 7.—Following is a lard price record, per 100 pounds, for the week:—

	High.	Low.	Closing Feb. 7.	Closing Jan. 31.
Cash	$6.32	$6.25	$6.32	$5.20
May	6.62	6.50	6.57	6.57
July	6.75	6.65	6.75	6.75

Stearin.—Offerings light on spot and tone steady. Fair inquiry.

CHICAGO, Feb. 7.—Prime oleo stearin, 6c. to 6¼c. per pound; lard stearin, 6¾c.

Tallow. — Inquiry for comparatively small lots fairly active. Large consumers holding off. Offerings light.

CHICAGO, Feb. 7. — Inedible tallow, prime, 4¾c. to 5c. per pound; special, 4⅝c. to 4¾c.

There was no trading in tallow futures on the New York Produce Exchange from February 1 to February 7, inclusive. Following is a price record for the week:—

	Cents per pound in tanks— High.	Low.	Close.
May	...	...	5.25@5.35
July	...	...	5.35@5.50

Animal Oils

Lard.—Demand generally limited to small lots for prompt shipment. Market firm.

CHICAGO, Feb. 7.—No. 1 lard oil, 7¾c. to 8c. per pound.

Neatsfoot.—Firm at recent advance. Spot stocks reported moderate. Fair request.

Oleo.—Fair movement of moderate lots to local and outside consumers. Tone firm.

CHICAGO, Feb. 7.—Extra oleo oil, 7c. to 7¼c. per pound.

Tallow.—Fair request for moderate lots. Market steady.

CHICAGO, Feb. 7.—Acidless tallow oil, 7¼c. to 7½c. per pound.

Waxes

Bay.—Steady but quiet. Price holds.

Bees.—White bleached wax higher. Slabs, 38c. to 40c. per pound; cakes, 39c. to 41c.; discs, 40c. to 42c. per pound. Range covers sellers' price differences. Yellow very firm. Crude values unyielding. Demand good.

Candelilla.—Firm but possibly less active at unchanged prices.

Carnauba.—Some Brazilian shippers quote lower. Others hold prices. Spot lower. Chalky, ton lots, 56c. to 57c. per pound; 5-bag lots, 56½c. to 57½c.; 1-bag lots, 57c. to 58c.; No. 2 North Country, 63c. to 64c.; No. 3 North Country, ton lots, 59c. to 60c.; 5-bag lots, 59½c. to 60½c.; 1-bag lots, 60c. to 61c.; refined, 65c. to 66c.; No. 1 yellow, ton, 68c. to 69c.; 5-bag lots, 68½c. to 69½c.; 1-bag lots, 69c. to 70c.; No. 2 yellow, 67c. to 68c. Federal government showing interest in price structure and reasons therefor.

Japan.—Lower and very quiet at 17c. to 17½c. per pound.

Ian Armstrong Joins American Trading Company

San Francisco, Feb. 3, 1941

Ian Armstrong, for thirty years identified with vegetable oil trading in San Francisco and who has long been chairman of the Foreign Commerce Association of the San Francisco Chamber of Commerce, has joined the American Trading Company, San Francisco, where he will be in charge of a new importing department handling vegetable oils, chemicals, and general imports.

Mr. Armstrong goes to his new post after a period of twenty-seven years with Balfour, Guthrie & Co., Ltd., of this city, during which time he became known all over the world as an authority on vegetable oils. His work included the establishment of uniform trading rules for imported vegetable oils, and these rules continue to be part of the trading provisions for imported oils traded on San Francisco Foreign Commerce Association, the New Orleans Cottonseed Crushers' Association, and the New York Produce Exchange contracts.

The American Trading Company of San Francisco has for many years been identified in the copra business. It is pointed out that Armstrong's new duties will be to extend the scope of the company's activities beyond the copra imports business and to place American Trading Company of San Francisco into a more general market position in the imported and domestic vegetable oils and chemicals picture.

Spencer Kellogg Names Weydman District Head

Clayton J. Weydman has been appointed district salesmanager of the Cincinnati office of Spencer Kellogg & Sons, Inc., Buffalo. He fills the post vacated by the death of Robert Leslie.

C. J. Weydman

Born in Buffalo, Mr. Weydman attended school in that city. Following a period of service with the Ford Motor Company he joined Spencer Kellogg & Sons, in Buffalo in 1929.

Mr. Weydman started in the oil sales department, working inside handling correspondence and clerical work, calling on the trade in New York State and Pennsylvania. Later he was transferred to the Chicago office, where he worked as assistant to the district manager there. From Chicago he was transferred to Cleveland where he did the same type of work. About a year and a half ago he was brought back to Buffalo to handle the sale of linseed meal and soybean meal in the Eastern territory.

For many years he has taken an active part in paint association activities, having been former secretary of the Paint Salesmen's Club of Cleveland.

Louisville A.C.S. Hears About Soybean Oil

Prof. H. R. Kraybill, of Purdue University, a specialist on byproducts of soybeans, and especially such parts as are not used in industry, spoke before the January meeting of the Louisville chapter of the American Chemical Society. The speaker stated that at Purdue methods of separating soybean oils have been devised, with one having superior drying value for use in paint, and the other better adapted for food uses. A new process, he said, had isolated two sugars, one of which is chemically identical to cane, or beet sugar, in the leftovers of the soybean. From waste, he also has been successful, in extracting numerous sterols.

G. H. Tomlinson, manager of the New York branch of the Archer-Daniels-Midland Company, linseed crusher, Minneapolis, left Friday for a vacation in Florida.

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Vegetable Oils Processing Tax Increase Asked

OPD Washington Bureau
February 3, 1941

Increased processing taxes on certain oils and a higher tax on imported soybean oil are called for by a bill (H.R. 2814) presented to the house by Rep. Harold Knutson of Minnesota.

The bill imposes a processing tax of 6 cents per pound on the following oils or combinations of oils:—Coconut, sesame, palm, palm-kernel, perilla, rapeseed, hempseed, kapokseed, babassu, sunflower, and imported cottonseed oil. Palm oil used in the manufacture of tin plate is excluded from the tax.

At present there is a processing tax of 3 cents per pound on palm oil, palm-kernel oil, and coconut oil of Philippine origin, and a tax of 5 cents per pound on coconut oil not from the Philippines. The other oils are now free from processing taxes.

The tax on imported soybean oil is increased from 3½ cents per pound to 6 cents per pound under the bill.

Victor Chemical Arranges Refunding Bank Loan

Victor Chemical Works, Chicago, has reported to Securities and Exchange Commission that on January 15, 1941, it borrowed $750,000 from Continental Illinois National Bank & Trust Company, Chicago, on 1¾ percent promissory notes, due $150,000 each January 15, 1942-1946, inclusive. Net proceeds, together with other funds, were used as follows:—$610,394 to pay on January 15, 1941, the principal and interest and prepayment premium of a $500,000 note held by Equitable Life Assurance Society and payment of the remaining $400,000 of notes held by Continental Illinois National Bank & Trust Co.

Economics Laboratory Opens Eastern Manufacturing Unit

Economics Laboratory, Inc., St. Paul, Minnesota, has established an Eastern manufacturing plant in Newark, N. J., to manufacture its line of cleaning materials and floor wax for industrial and household use. The plant has upward of 30,000 square feet of floor area.

Rheem Co. Increases Stock

At a special meeting of stockholders of the Rheem Manufacturing Company, this city, on February 4, approved issuance of 120,000 shares of $25 par preferred stock and an increase in common from 500,000 to

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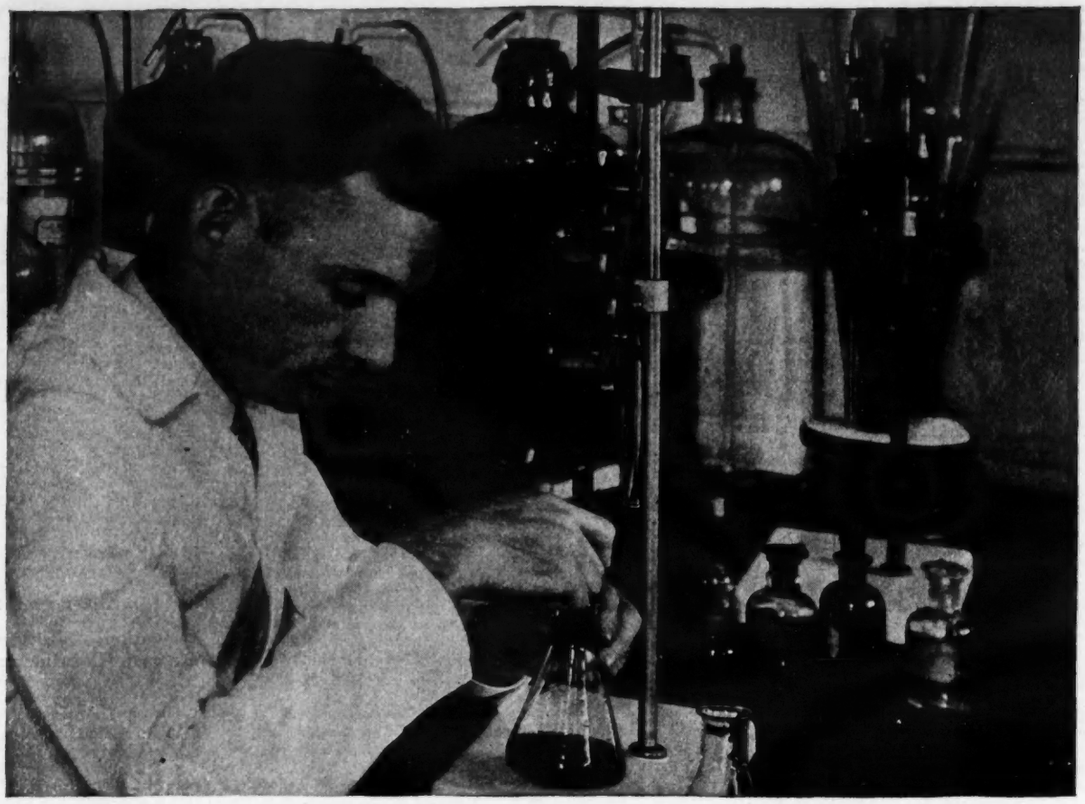

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NYQ

Drugs, Fine Chemicals

Sale of 1,500 Flasks Quicksilver Engages Production Through April — Santonin Tax of $20 Per Pound Sought —Mannitol Reduced Again—Cocoa Butter Up

Reports from various public health bodies last week noted a decrease in the number of cases of influenza. However, the number was still sufficiently high to be a stimulus to demand for medicinal agents to combat the disease. The ordinary run of seasonal ailments tended to keep consumption on that account well maintained at volume about normal in most years.

A report from Washington recorded filing of a bill numbered S-7207 calling for a $20 per pound tax on all imported santonin and santonin salts. A similar measure, introduced last April failed of action before the end of the last session of Congress and its reintroduction indicated that desire to protect the domestic manufacture of those materials still existed.

Chinese menthol brought higher prices but its market, as well as that for Japanese natural menthol seemed less the object of upward price pressure originating in the primary markets. Synthetic mannitol was again reduced, thus continuing the price history of the article since its commercial production some time ago. Corn syrup declined late in the previous trading period.

Sales of future production of quicksilver reached around 1,500 flasks last week. Reports indicated a dwindling of spot stocks and there was not too much unsold and available for prompt delivery on the Pacific Coast. A report indicated governmental interest in the price position of the article.

Acetanilide. — Seasonal needs up. Very steady market.

Acid, Acetylsalicylic. — Movement excellent. Consumption stimulated.

Acid, Boric. — Excellent activity. Jobbers note higher sales.

Acid, Citric.—Firm and well stabilized. Demand at seasonal level. United Kingdom exports, 1938 and 1939, by countries of purchase were:—

	Hundredweights	
	1938.	1939.
Australia	2,221	1,636
Canada	7,139	8,794
Other British countries	4,263	5,124
Sweden	1,535	2,276
Denmark	2,100	3,173
Germany	1,433	446
Netherlands	1,748	1,424
Belgium	902	351
France	3,350	2,422
Spain	59	664
Argentina	1,547	2,773
Other foreign countries	5,050	4,099

Acid, Fumaric. — Low, favorable prices cause gain in interest.

Acid, Nicotinic.—Declining prices follow rising consumption curve. Business excellent.

Acid, Tartaric.—Strong. Demand ahead of supply. Plenty of opportunity to sell in resale quarters. Makers exercise reserve in accepting business. Higher prices should not surprise.

Adeps Lanae.—Steady to firm. Moving in good volume.

Agar.—Still slightly easier but lacking further decline.

Alcohol.—Firm to strong and growing in strength. Statistics comparing production, withdrawals, and stocks of pure and denatured ethyl alcohol in July-December, 1940, and 1939, as prepared by the Alcohol Tax Unit, Bureau of Internal Revenue, Treasury Department, Washington, D. C., are as fellows:—

Ethyl Alcohol

	Proof gallons	
	July-Dec. 1940.	July-Dec. 1939.
Production	138,814,823	119,122,748
Withdrawn, tax paid	12,935,241	11,990,773
tax free	137,944,513	122,791,809
Stocks, Dec. 31	9,502,561	14,613,610

Denatured Alcohol

	Wine gallons	
	July-Dec. 1940.	July-Dec. 1939.
Completely Produced	13,818,644	11,617,867
Removed	13,855,519	11,962,054
Stocks, Dec. 31	453,099	301,694
Specially Produced	62,294,904	57,024,433
Removed	62,527,994	57,445,273
Stocks, Dec. 31	906,411	868,497

Bonded Dealers

	Wine gallons	
	July-Dec. 1940.	July-Dec. 1939.
Specially denatured—		
Received from denaturing plants	1,901,451	1,927,545
Disposed to bonded manufacturers	1,911,395	1,992,828
Inter - dealer shipments	2,559	2,019
Stocks, Dec. 31	364,756	310,630

Current prices on drugs and fine chemicals are given in the alphabetical list of prices beginning on page 7

Association Meetings:—

Amer. Drug Mfers. Ass'n, May 5-8, White Sulphur Sprs.
Proprietary Ass'n, May 12-14, New York.
Purchasing Agents Ass'n, May 26-29, Chicago.

Price Changes

Advanced

Castor oil, dehydrated, drums, 1/10c. per lb.
Cocoa butter, ¾c. per lb.
Menthol, Chinese, 25c. per lb.

Reduced

Corn syrup, 5c. per 100 lbs.
Mannitol, commercial grade, ton lots, 3c. per lb.
smaller quantities, 5c. per lb.
reagent grade, 5c. per lb.

Comparative Values

Index numbers compiled from thirty-five typical drugs and fine chemicals on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
206.1	**206.1**	**205.9**	**197.8**

Market news that may have developed after this report was sent to press will be found on page 4.

Aminopyridine.—Seasonal consumption running well. Firm.

Barbital.—Normal activity. Prices steady.

Barium Sulphate.—X-ray item moving at full, normal volume.

Berberine. — Strength throughout entire group. Good call.

Bismuth Metal and Salts.—No special feature. Market fully normal and exceptionally steady.

Borax.—Production is moving out promptly and at expected volume.

Bromine and Bromides.—Fair degree stability noted. Demand good.

Brucine.—Steady to firm. Reasonably good call.

Cadmium Metal and Salts.—Full-fledged consumption at very firm prices. Little competition.

Caffeine. — The ancient theme of shortage in resale market repeated. Regular consuming trade needs believed met by careful program of producers. No surplus supply to meet any need.

Castor Oil.—Stronger due to strong position of beans caused by scarcity of shipping space from Brazil. Dehydrated oil in drums advanced to 13.2c. per pound in carlots; less carlots, 13.6c. Tanks unchanged at 12½c.

CHICAGO, Feb. 5.—Castor oil prices are:—Cold pressed, U.S.P., barrels, car lots, 10⅝c. per pound; barrels, less than car lots, 11⅜c.; returnable drums, car lots, 10⅜c.; drums, less than car lots, 11⅛c.; tanks, 9⅞c.; extracted, No. 3, barrels, car lots, 10⅛c.; barrels, less than car lots, 10⅞c.; returnable drums, car lots, 9c.; drums, less than car lots, 10⅜c.; tanks, 9⅜c.

Chloroform.—Consumption of technical article gains, or holds, according

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to seller. U.S.P. in normal request. Prices firm.

Cocoa Butter.—Strong. Scarce. Deliveries behind. Price up to 19c. per pound, car lots, spot.

Codeine.—Special demand rising out of influenza prevalence. Firm market. Other consumption normal.

Codliver Oil.—Steady at late drop to $67 to $70 per barrel. Icelandic production highly vital this year.

Collodion.—Normal activity. Firm undertones showing more strength.

Corn Syrup.—Drop of 5c. in price reported late in previous week. Quotations, 42-degree syrups, $3.42 per hundred pounds; 43-degree, $3.47.

Cream of Tartar.—No further rise. Advance not to be unexpected. Situation as strong as ever. Likely so to remain.

Creosote.—Sales up under special stimulus of seasonal sort.

Emetine.—Apparently well stabilized. Fair demand and deliveries.

Ephedrine.—All forms moving well. Low prices a stimulant.

Eserine.—Stocks low. Prices strong. Tendency upward.

Glycerin.—Good demand. Production finding ready consuming outlet. No important reserve supply. Production from petroleum uneconomical with present price on natural, refined item.

CHICAGO, Feb. 5.—Glycerin prices are:—Chemically pure, 12¼c. per pound, tanks; 12½c., drums, car lots; 13c., drums, less than car lots; high gravity, 11¾c. per pound, tanks; 12c., drums, car lots; 12½c., drums, less than car lots.

Halibut Liver Oil.—Ready market for practically all available. Market $40 per gallon. Prices tend upward.

Iodides.—Exports report difficulty and slowness in receiving export licenses. Need for export control by license system doubted. Relation with national defense not clear to many.

Mannitol.—Prices reduced again. Commercial grade, ton lots, down to 35c. per pound; smaller quantities, 40c. Reagent grade, 85c. Price history since introduction synthetic manufacture consistantly downward.

Menthol.—Market at $4 to $4.10 per pound. Rise thought checked. Less upward pressure from primary market points. Synthetic strong at recent rise.

Mercurials.—Firmness reflects position of raw material. Pacific Coast reports Federal government again in market, probably for red mercury oxide but possibly for mercurials used medicinally.

Methanol. — Production totals for 1940 vs. 1939 respectively were:—Crude, 5,294,020 gallons, against 4,659,589 gallons; synthetic, 44,968,447 gallons against 34,355,699 gallons. Complete statistical data, see elsewhere in this issue.

Methyl Acetone.—Defense activity likely to raise 1941 consumption. Much steadier market noted.

Molasses.—No further price change in blackstrap. Markets firm to strong at all points.

Morphine.—Seasonal average consumption said to have been exceeded. Very firm and quite active market.

Potash Carbonate.—U.S.P. firm. In normal request and moderate spot supply.

Potash Sulphate.—Good call and conservative supply of N. F. item.

Quicksilver.—Little spot metal unsold. Market almost nominal at $167 to $169 per flask. Sales of futures, through April, involved 1,000 to 1,500 flasks last week. Government reported showing interest in price situation.

SAN FRANCISCO, Feb. 5.—Quicksilver market activated by strong buying. Spots quickly absorbed. Contracts written for March and April positions, possibly farther. Prices very firm at $165. At least 1,600 flasks sold. Possibly more. Government reported again in market for mercurials.

Quinine.—Firm and seasonally active at very firm prices. Quinine Bureau of Batavia gives Greek people 2,000,000 quinine tablets in recognition of Greek war efforts against Italians.

Rochelle Salt. — Unquestionably

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NATIONAL MILK SUGAR COMPANY
Division of The Borden Company
350 MADISON AVENUE NEW YORK, N. Y.

strong. Further advance not unlikely. Good demand. Offerings moderate.

Saccharin.—Good interest for home consumption. Deliveries prompt.

Santonin.—Bill calling for $20 per pound tax on imported santonin salts proposed in Senate Bill 7207. Similar measure introduced in senate last April.

Seidlitz Mixture. — Tendency still upward. Production costs hangs high. Not likely to decrease.

Silver Nitrate. — The schedule of prices since the last report prevailed as follows, covering quantities of 100 ounces; small lots from 1c. to 2c. more per ounce and quantities of 500 ounces are quoted at about 1c. less. Comparison of prices of bullion in New York and London is also provided.

	Per ounce		
		Bullion	
	Nitrate. Cents.	New York. Cents.	London. Pence.
Saturday	26⅞	34¾	23⅛
Monday	26⅞	34¾	23⅛
Tuesday	26⅞	34¾	23⅛
Wednesday	26⅞	34¾	23⅛
Thursday	26⅞	34¾	23⅛
Friday	26⅞	34¾	23¼

Soda Benzoate. — Some broadening of inquiry and demand. Firm.

Soda Citrate.—Normal movement at well stabilized prices.

Soda Glycerophosphate.—Future requirements well covered by users' supplies and producers' stocks.

Soda Hypophosphite. — Normal activity. Steady prices and undertones.

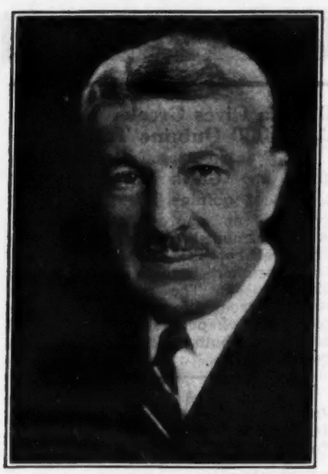
Soda Perborate.—Consumption running to normal volume. Firm, well stabilized market.

Mallinckrodt Elects Boylston President

—Continued from page 5

to being assistant secretary and treasurer, will serve also as a vice-president. S. W. Coleman succeeds Mr. Frohock as general salesmanager.

Mr. Boylston, affiliated with the Mallinckrodt Chemical Works for



Dr. F. W. Russe

thirty-two years, was born in Milton, Mass., in 1882. He was graduated from Harvard University with an A.B. in 1903 and received his A.M. from the same institution in 1906.

Mr. Boylston joined the Mallinckrodt organization as a research chemist in 1908. He was named manufacturing superintendent in 1911, and works superintendent in 1920. He was elected to the directorate in 1922 and became vice-president and general manager in 1925.

Mr. Boylston served as president of the American Drug Manufacturing Association in 1935-37, and holds membership in the American Chemical Society, and the American Institute of Chemical Engineers, and is a fellow of the American Association for the Advancement of Science. He belongs to the Harvard Club, University Club, Noonday Club and the Bellerive Country Club, and is also a member of the industrial and metropolitan boards of the St. Louis Young Men's Christian Association.

Dr. Russe became associated with Mallinckrodt Chemical Works as a research chemist in 1905, after having received his Ph.D. from Harvard. He was placed in charge of purchasing in 1906, and advanced through various positions to that of secretary

Santonin Import Tax Proposed by McNary

OPD Washington Bureau
February 3, 1941

Imported santonin and santonin salts would be taxed $20 per pound under the terms of a bill (S.720) introduced by Senator Charles McNary of Oregon. At present there is no duty on importation of these products.

Domestic production of santonin is a relatively new enterprise. According to Senator McNary's office the santonica plant from which santonin is extracted is grown by one concern which has approximately 40 acres in cultivation near Hermiston, Umatilla county, Oregon.

in 1925. He has been a member of the directorate since 1922.

Long a member of the American Chemical Society and the American Association for the Advancement of Science, Dr. Russe has also served in executive capacity in the National Association of Purchasing Agents, Board of St. Lukes Hospital, Hospital Council of St. Louis, Group Hospital

M. A. Frohock

Service, Harvard Club, Contemporary Club, Round Table, Town and Gown, University Club and United Charities.

Mr. Frohock joined Mallinckrodt in 1910 as an industrial engineer. He later served as office manager and comptroller, being made assistant secretary and treasurer as well as a member of the directorate in 1928. He is an active member of various associations allied to the chemical industry as well as many clubs, such as the Norwood Hills Country Club and the Missouri Athletic Club.

Mr. Coleman, who has been merchandise manager, formerly held executive positions with the American Agricultural Chemical Company, the Akron Soap Company, Swift & Co., and the Hecker Products Corporation.

Mannitol Supplies Sufficient

The United States is no longer dependent on a foreign source of supply for mannitol, according to the Atlas Powder Company, Wilmington, Del. Atlas chemists worked out the synthetic production of the item and the process assures of abundant supplies. Since first offered, prices have worked steadily downward, the latest reduction having been made last week. An old product has been made new, according to Atlas, by the ability to offer the chemical at prices far below its former height.

Pepsi-Cola Trademark Ban Review Sought in Bahamas

Nassau, Bahamas, Feb. 3, 1941

The Pepsi-Cola Company, Long Island City, N. Y., today sought permission to appeal to the Privy Council against a court decision here barring registration of the company's trademark on a protest by the Coca-Cola Company, Atlanta, Ga.

BASIC MATERIALS
for Drugs and Cosmetics

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Methanol Output Shows Gain in 1940

Monthly statistics production of crude and synthetic methanol, almost the entire output of commodities in the United States, released by Director William L. Austin, Bureau of Census, Department of Commerce, follow:—

Production

	Gallons			
	1939		1938	
	*Synthetic.	Crude.	*Synthetic.	Crude.
Jan..	3,452,677	457,271	2,462,884	351,814
Feb..	3,782,402	446,815	2,267,339	336,157
Mar..	3,462,946	506,937	2,406,564	364,500
Apr..	3,480,233	441,888	2,276,385	389,423
May..	3,408,517	486,883	1,778,581	354,415
June.	3,426,100	425,578	2,295,288	343,992
July..	3,851,669	390,004	2,495,394	377,755
Aug..	3,787,794	407,764	2,678,983	359,594
Sept..	3,548,808	365,786	2,639,934	404,876
Oct...	4,408,626	403,175	4,158,161	463,420
Nov..	4,439,005	467,976	4,611,707	479,622
Dec..	3,913,370	483,953	4,184,479	434,021
T't'ls.	44,968,447	5,294,020	34,255,699	4,659,589

* The refined equivalent would be approximately 82 percent of the crude production.

Wood Carbonized

	Cords	
	1940.	1939.
January	44,323	63,353
February	44,927	31,715
March	47,781	35,301
April	44,617	36,176
May	45,667	33,357
June	42,961	35,592
July	41,634	33,353
August	43,433	34,296
September	40,504	40,557
October	48,613	44,588
November	48,904	45,101
December	50,453	43,388
Totals	543,817	449,974

Drug Chain Sales Up

Chain drug store sales during November increased about 2 percent over October on an average daily basis and were 5 percent larger than in November, 1939, according to the Bureau of Foreign and Domestic Commerce, based on reports covering more than 2,200 stores in the trade. The October-November rise was in contrast to a usual slight decrease recorded between these two months in recent years, and represents considerable expansion in the trade, since October sales were in unusually good volume. During the first eleven months of 1940, sales averaged approximately 3 percent larger than in the corresponding months of 1939. Average daily sales of independent drug stores in November were about the same as in October.

Spanish Language 'Ad' Used By Penna. Glass Products Co.

Advertising in the Spanish language is being employed by the Pennsylvania Glass Products Company, manufacturers of glassware for pharmaceutical and other purposes, Pittsburgh, Pa., to publicize its new design dropping bottle in the Latin-American countries. The advertisements, one of which appears in this issue of the REPORTER, are being inserted in publications having circulation in the Spanish-speaking countries.

Emphasized in the present advertisement is the use of "Amerkine" synthetic rubber for the bulb of the Pennsylvania Glass Products bottles. The synthetic product is said to be far more impervious to oil than natural rubber. It is also declared that the material has been found exceptionally satisfactory in connection with the packaging of vitamin products.

The bottles are manufactured in various sizes and an assortment of colors.

'First-Aid' Packaging Rule Proposed by Safety Ass'n

A proposed simplified practice recommendation covering the packaging of first-aid unit dressings and treatments, sponsored by the first-aid section of the Industrial Safety Equipment Association, has been submitted to all interests for consideration and approval, according to an announcement of the division of simplified practice of the National Bureau of Standards.

Whelan Drug Names Two Vice-Presidents

The Whelan Drug Company, this city, has named Frank M. Head, director of drug store operations, and Willard H. Ware, general merchandise director, vice-presidents of the company. Mr. Head was formerly general sales manager for the Owl Drug Company, and Mr. Ware was formerly with the S. H. Kress Company.

McK.&R. Reorganization Hearing to Resume Today

William J. Wardall, trustee for McKesson & Robbins, and the committee for preference stockholders conferred last week with a view to reaching an agreement on a single plan for the reorganization of McK&R. In order to provide time for consultation, Federal Judge Alfred C. Coxe adjourned hearings on the reorganization proposals, setting February 10 as the date for resumption.

Earlier, Judge Coxe had stated he intended to send the Wardall plan and that of preference stockholders committe to the Securities and Exchange Commission. The Wardall plan suggests that present bondholders receive some preferred stock, some debentures, and some cash, while the holders of preferance stock would receive new common stock. The plan of the preference stockholders' committee would involve issuance of new debentures, serial notes, and preferred and common stock. The serial notes would be distributed among holders of preference stock. The conference seeks to reconcile the views of the trustee and the stockholders committee to the end that a single plan may be submitted to the SEC.

W. W. de Berard, an engineer, chemist and bacteriologist, has been appointed City Engineer of Chicago.

Batavia Gives Greeks 2,000,000 Quinine Tablets

The Quinine Bureau of Batavia has given the Greek people 2,000,000 tablets of quinine, valued at 20,000 guilders, or approximately $11,000. Announcement of the gift was made last week by E. C. Zimmerman, Trade Commissioner for the Netherlands East Indies. The contribution was made in recognition of the war efforts of the Greek people and is intended for use by both military and civilian populations.

Coty, Inc., manufacturer of perfumes, has purchased a five-story building at 714 Fifth avenue, this city, for an estimated $675,000.

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383 Brannan St. San Francisco, Cal.
KARAYA (INDIAN GUM)
LOCUST BEAN
TRAGACANTH
ARABIC

Botanical Drugs, Spices, and Gums

Stock Shortages Thrust Individual Botanicals to Record High Prices — Labor Question Important Factor in Domestic Drug Collections—Freights Up

Activity in the market for botanical drugs was overshadowed last week by the severity of a few advances in materials that have been almost impossible to obtain. Once more did the inability of dealers to get replacements from the European primary markets account for the establishment of prices that, in effect, were set up mainly in the interest of discouraging trading in the trifle of stocks still unsold on this market.

Of importance to those importing botanicals from the Far East was the report that effective April 1, freight rates would be advanced twenty-five percent. This was estimated to figure about ⅜c. per pound in the cost of numerous low prices commodities.

Collection of domestic botanical drugs is likely to be a difficult problem to solve satisfactorily. All indications were that defense activities in, around, and about the areas of domestic production would drain supply of field labor. Demand for labor is running high and wages are likewise high. Some said that collections would have to be made by old men, women and children, but it was also suggested that the elders who have children working at high wages in defense projects would have sufficient money to allow them a vacation from drug collection work next summer. The future in this respect is most uncertain but, as in the past, it seems probable that the dealers here and in the primary market will work out a solution that will produce stocks about as needed.

Balsams

Copaiba.—Prices move up here as values rise at source. Para, 27c. to 28c. per pound. South American, 29c. to 30c.

Tolu.—Higher at 85c. to 90c. per pound. Rise reflects higher replacement. Demand about normal.

Barks

Black Haw.—Root bark up to 40c. to 45c. per pound. Good (normal) quality bark scarce. Tree bark steady.

Cascara Sagrada.—Outlook poor for 1941 collections. Labor scarcity expected. Result of high demand for men in expanded timber operations caused by defense needs. Limited carryover strongly held. Spot quotations up to 17c. to 18c. per pound.

Soap.—Lower. Whole, 10½c. to 11c. per pound. Crushed, 13c. to 14c. Domestic cut, 17c. to 18c. Powder, 17c. to 18c. Might be shaded.

Beans

Angostura.—Surinam easier at 70c. to 85c. per pound. Angostura very firm. Fair demand.

Vanilla.—No change in situation. Market practically nominal. Ready market for all Mexican beans available for export to spot. Sellers highly reserved. No open, unsolicited market offerings.

Imports and Detentions

Entries of botanicals at the port of New York since the week of January 1, 1941, and the detention of these items by the Food and Drug Administration because of the presence of matter rendering them unfit for human consumption were:—

	Bags— Detained.	Entered.
Anise	...	100
Belladonna	19	19
Caraway	...	38
Cardamom (cases)	...	316
Celery	...	26
Coriander	1,000	11,290
Cumin	462	1,537
Digitalis leaves (cases)	...	...
Dill	...	2,632
Fennel	...	268
Henbane leaves (bales)	...	...
Mustard	...	1,250
Poppy	...	...
Sage leaves (bales)	...	2,946
Sesame	...	1,280
Stramonium	...	...
Thyme	197	297

Price Changes

Advanced

Alkanet root, 5c. per lb.
Arnica flowers, $1.50 per lb.
Arnica root, 80c. per lb.
Black haw, root bark, 5c. per lb.
Buckthorn bark, cut and sifted, 5c. per lb.
Cantharides, Russian, whole, 5c. per lb.
Caraway seed, Dutch, 4½c. per lb.
Cascara bark, 2c. per lb.
Chamomile flowers, Roman, $1.25 per lb.
Copaiba balsam, Para, 2c. per lb.
South American, 2c. per lb.
Ginger root, African, ¼c. per lb.
Poppy seed, Dutch, 4c. per lb.
Turkish, 3½c. per lb.
Rapeseed, Indian, small, recleaned, ¼c. per lb.
Tolu balsam, 5c. per lb.
Valerian root, 40c. per lb.

Reduced

Anise, star, 1½c. per lb.
Cumin seed, Persian, ¼c. per lb.
Dill seed, recleaned, ¼c. per lb.
Fennel seed, Indian, ½c. per lb.
Gentian root, whole, 10c. per lb.
ground, 10c. per lb.
powdered, 10c. per lb.
Golden seal root, whole, 15c. per lb.
powdered, 20c. per lb.
Mustard seed, Montana yellow, ½c. per lb.
Nutmegs, E. I., small, grinding, ½c. per lb.
Paprika, Algerian, 1½c. per lb.
Bulgarian, ½c. per lb.
Portuguese, extra fancy, ½c. per lb.
medium, 1c. per lb.
Spanish, extra fancy, 1c. per lb.
medium, 1c. per lb.
Pepper, red chillies, Japanese, ½c. per lb.
Pimento, Jamaica, ½c. per lb.
Mexican, ¾c. per lb.
Soapbark, whole, ½c. per lb.
crushed, 1c. per lb.
cut, domestic, 1c. per lb.
powdered, 1c. per lb.
Sunflower seed, poultry, Argentine, ½c. per lb.

Comparative Values

Index numbers compiled from forty typical botanicals on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
239.0	224.8	224.4	189.4

Market news that may have developed after this report was sent to press will be found on page 4.

Berries

Cubeb.—Firmer undertones persist. Advance maintained.

Juniper.—Practically nominal. Gin makers hold excellent reserves. Refuse to divert any berries to local dealers. New source of supply may open soon. Domestic collection being encouraged. Cannot collect until snow is off ground.

—Continued on page 56

Current prices on botanical drugs and spices are given in the alphabetical list of prices beginning on page 7

Association Meetings:—
Amer. Spice Trade Ass'n, May 12-14 (Tentative), New York.

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- ✓ ANISEED
- ✓ ARECA NUTS
- ✓ ASAFOETIDA GUM
- ✓ BENZOIN GUM
- ✓ BUCHU LEAVES
- ✓ CALAMUS ROOT
- ✓ CUDBEAR
- ✓ CINCHONA BARK
- ✓ DAMIANA Select
- ✓ DIGITALIS (116% Active)
- ✓ DOGGRASS CUT
- ✓ ERGOT (140% Active)
- ✓ EUPHORBIA PIL.
- ✓ FENNEL SEED
- ✓ GALANGAL ROOT
- ✓ GINGER
- ✓ GUAIAC GUM Glassy
- ✓ HAWTHORNE BERRIES
- ✓ HOREHOUND
- ✓ IPECAC ROOT
- ✓ IRISH MOSS
- ✓ KOLA NUTS
- ✓ MYRRH GUM
- ✓ OLIBANUM GUM
- ✓ ORANGE PEEL
- ✓ ORRIS ROOT
- ✓ PAPAIN
- ✓ PEPPERMINT
- ✓ PSYLLIUM SEED
- ✓ QUASSIA
- ✓ QUINCE SEED
- ✓ RHUBARB ROOT
- ✓ SANDALWOOD
- ✓ SARSAPARILLA
- ✓ SENEGA ROOT
- ✓ SENNA LEAVES
- ✓ SLOE BERRIES
- ✓ STRAMONIUM
- ✓ UVA URSI
- ✓ WILD CHERRY BARK
- ✓ PALE ROSE BUDS

◆ ◆ ◆ ◆ QUOTATIONS AND SAMPLES ON REQUEST ◆ ◆ ◆ ◆

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CORIANDER SEED
CUMIN SEED
FOENUGREEK SEED
MARJORAM LEAVES, French
PARSLEY SEED
SAGE LEAVES
SESAME SEED HULLED
THYME LEAVES, French
AMINOPHYLLINE
ASPIRIN, QUININE AND OTHER TABLETS
BARBITAL
CARBOLIC ACID CRYSTALS
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VITAMIN PRODUCTS
PEPPERMINT OIL U. S. P.
SAVIN OIL
AGAR AGAR, Japanese
Shreds, Cut and Powder
ALOES, Curacao and Cape
ALTHEA ROOT
BALSAM COPAIBA
BALSAM PERU
BELLADONNA LEAVES
BELLADONNA ROOT
BUCHU LEAVES
COCILLANA BARK
CORIANDER OIL U. S. P.
FENNEL SEED, Indian
GENTIAN ROOT
GRAINS OF PARADISE
GUM ARABIC AMBER SORTS
GUM CAMPHOR, Japanese
HELLEBORE ROOT WHITE
HERBE MENTHE
HOREHOUND HERB
IPECAC ROOT
JUNIPER BERRIES
LAVENDER FLOWERS
LINDEN FLOWERS
MAHUANG, Chinese
MALEFERN ROOT
ORRIS ROOT
PSYLLIUM SEED
PSYLLIUM SEED HUSKS
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Aluminum palmitate
Aluminum resinate
Aluminum stearate
Ammonium metavanadate
Calcium linoleate
Calcium naphthenate
Calcium resinate
Calcium stearate
Cobalt acetate, calcined, and naphthenic acid with volatile organic solvents
Cobalt chloride, anhydrous
Cobalt hydrate
Cobalt japan driers
Cobalt linoleate
Cobalt oleate
Cobalt naphthenate
Cobalt resinate
Cobalt uversols
Cobalt acetylacetone
Cobalt lead paste
Copper erucate
Copper linoleate
Copper oleate
Copper resinate
Lead erucate
Lead linoleate
Lead naphthenate
Lead oilsolate
Lead oleate
Lead resinate
Lead stearate
Lead tungstate
Lead uversols
Lead-manganese resinate
Magnesium oleate
Manganese borate
Manganese dioxide
Manganese hydrate
Manganese linoleate
Manganese naphthenate
Manganese oleate
Manganese oxalate
Manganese oxide
Manganese resinate
Manganese stearate
Manganese sulphate
Manganese tungstate
Manganese uversols
Naphthenic acids salts in a free fatty acid of a drying oil
Nickel linoleate
Nickel naphthenate
Nickel resinate
Nuodex cobalt
Nuodex lead
Nuodex manganese
Oilsolate driers
Organolead phenolates
Oxygen compounds of manganese or other metals with naphthenic acid in a volatile organic solvent
Reaction products of manganese and other metal compounds with oxidation products of mineral waxes
Solidite driers
Soligen cobalt-manganese
Soligen manganese
Soligen zinc-manganese
Trialkyl lead phenolate
Triethyl-lead cresolate
Triethyl-lead monohydric phenolate
Triethyl-lead naphtholate
Triethyl-lead polyhydric phenolate
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Chromium silicide
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Copper oxide
Copper silicide
Iron carbide
Iron oxide
Iron silicide
Manganese carbide
Manganese oxide
Manganese silicide
Molybdenum carbide
Molybdenum oxide
Molybdenum silicide
Nickel
Nickel carbide
Nickel oleate
Nickel oxide
Nickel silicide
Palladium
Palladium carbide
Palladium oxide
Palladium silicide
Platinum
Platinum carbide
Platinum oxide
Platinum silicide
Selenium
Selenium carbide
Selenium oxide
Selenium silicide
Silica
Tellurium
Tellurium carbide
Tellurium oxide
Tellurium silicide
Thorium
Thorium carbide
Thorium oxide
Thorium silicide
Titanium
Titanium carbide
Titanium oxide
Titanium silicide
Vanadium
Vanadium carbide
Vanadium oxide
Vanadium silicide
Zirconium
Zirconium carbide
Zirconium oxide
Zirconium silicide

Perpropionic Acid

Catalysts Used in Manufacture of Perpropionic Acid

Cerium compounds
Chromium compounds
Iron compounds
Uranium compounds
Vanadium compounds

Petroleum

Addition Agents in Petroleum Lubricants

(Continued from February 3 issue)

Diphenylmethyl-thallium
Diphenylmethyl-zinc
Ditolyl-aluminum
Ditolyl-bismuthine
Ditolyl-cadmium
Ditolyl-mercury
Ditolyl-mercury sulphide
Ditolyl-stibine
Ditolyl-thallium
Ditolyl-zinc
Dodecyl dichlorostearate
Ethyl dichlorostearate
Ethyl-mercury oleate
Heavy metal compounds of petroleum sulphonic acids
Heptyl dichlorostearate
Hexaethylnaphthyl bismutate
Hexaethylnaphthyl-aluminum
Hexaethylnaphthyl-cadmium
Hexaethylnaphthyl-mercury
Hexaethylnaphthyl-thallium
Hexaethylnaphthyl-zinc
Hexaethylplumbane
Hexylnaphthyl-aluminum
Hexylnaphthyl-bismuth
Hexylnaphthyl-cadmium
Hexylnaphthyl-mercury
Hexanaphthyl-thallium
Hexanaphthyl-zinc
Hexyl dichlorostearate
Mercury dinaphthyl-naphthenate
Mercury phenylacetate
Metasap base 532
Naphthylalphapropyl-aluminum
Naphthylalphapropyl-cadmium
Naphthylalphapropyl-mercury
Naphthylalphapropyl-stibine
Naphthylalphapropyl-thallium
Naphthylalphapropyl-zinc
Nephthyl-mercury iodide
Nephthyl-mercury sulphide
Octadecyl dichlorostearate
Octyl dichlorostearate
Organic phosphates
Organic phosphites
Organic phosphorus compounds
Organic polysulphides
Organic thiophosphates
Petroleum sulphonic acids
Phenylethyl-mercury dithiocarbamate
Phenyllauryl-zinc telluride
Phosphorus acids esters
Propyl dichlorostearate
Selenium compounds
Soaps of pseudopimaric acid
Sodium-2-phenylbenziminazole sulphonate
Sulphur or its compounds
Sulphur with lead soaps
Sulphurized vegetable oils
Tellurium compounds
Tetraethyl-antimony fluoride

(To be continued)

Botanical Drugs

—Continued from page 55

Flowers

Arnica.—Sold at $3.50 per pound. Stocks almost extinct. Nominal market. Price on more business subject to confirmation.

Chamomile.—Very firm. Future of supply hazy. Roman nominal at $3.25 per pound.

Mullein.—Nominal in most quarters around $2 per pound.

Rose.—More inquiry along jobbing lines. Pale petals firmer.

Saffron.—Spanish flowers slightly unsettled. Some shading reported.

Gums

Arabic.—Primary market cables report possible sailing of freighter in mid-February. Same boat was scheduled to sail middle of January. Stocks of source believed plentiful. Future of market tied tightly with future ship movements from source to spot. Gum shipped to London moved on ships commandeered to transport wool to Great Britain.

Benzoin.—Quiet but steady. In fair but not rising demand.

Mastic.—Ample stocks find small consuming outlet. Conditions favoring buyers.

Sandarac. — Apparently steady. Routine interest noted.

Tragacanth. — Freighter scheduled for mid-February sailing. Same ship had been scheduled for mid-January. Plenty of gum at source. Few ships plying route from source to United States. Present spot market firm. Future of prices depends on getting gum started to this country. Urgent need for wool in Britain accounts for fair movement of gum from source to Britain.

Herbs and Leaves

Belladonna.—Very firm. Recent arrival of 19 bales rejected as not U.S.P.

Buchu.—Firm. Shipping space from source to spot scarce.

Senna.—Freight rates from Far East to rise 25 percent April 1. Estimated to increase costs about ⅜c. per pound.

Savory.—Scarce enough to be practically nominal.

Stramonium. — Strong. All prices subject to confirmation. Limited call.

Tarragon. — Last sales reported around $1.50 per pound.

Miscellaneous

Cantharides.—Extremely high prices heard on Russian flies. Quotations range $3 to $5 per pound, mainly according to buyer.

Dragon's Blood.—Growing firmer. Replacement slow and expensive.

Ergot.—Firmer undertone persists. No important sales gain.

Irish Moss.—Very firm. Consumption good. Sellers reserved. Replacements uncertain and slow.

Manna.—Chemical equivalent reported at lower prices.

Roots

Alkanet.—Advanced to 65c. to 70c. per pound under good call.

Arnica.—Nominally $1.25 per pound. Little available. Quoted subject to confirmation.

Gentian.—Lower. Reflects improved outlook for future imports. Whole, 40c. to 45c. per pound; ground, 44c. to 49c.; powder, 45c. to 50c.

Golden Seal.—Lower. Whole, $2.50 to $2.55 per pound. Powdered, $2.75 to $2.80. Sales outlets few and small.

Ipecac.—Firmer to stronger market maintained at late advance.

Valerian.—Spot goods available at $1.25 to $1.50 per pound.

Seeds

Anise.—Star lowered to 21½c. to 22c. per pound. No other changes.

Caraway.—Business done at 50c. to 52c. per pound. Little available.

Celery.—Stronger at 35c. to 36c. per pound for the Indian item.

Cumin.—Persian a fraction lower at 16½c. to 17c. per pound.

Dill.—Shaded to 7¾c. to 8¼c. per pound for recleaned goods.

Mustard.—Montana yellow down to 11½c. to 12c. per pound. No other changes.

Poppy.—Dutch sold in small way at 36c. to 38c. per pound. Turkish also higher at 31c. to 32c. Hungarian, Roumanian unchanged.

Rape.—Small, recleaned Indian seed higher at 6½c. to 7c. per pound. No Dutch or Japanese available.

—Continued on page 64

ISO-BUTYL QUINOLINE
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Essential Oils, Aromatic Chemicals

Ship Arrives With 149 Packages of Essential Oils—Peppermint and Spearmint Advance Extended in Strong Market —Sweet Almond Higher—All Prices Firm

Events and developments in the market for essential oils and aromatic chemicals last week were in line with the general market position noted for some time past. Absence of normal reserves of natural products continued to emphasize the importance of aromatic chemicals and compounds manufactured to supply needs caused by the elimination of numerous natural oils and the inability to get full quotas needed of those still available in primary markets.

Of substantial importance last week was the arrival of some natural products in this country via a French island. The quantities were not large but were almost joyously welcomed by those lucky enough to have gotten shipments long delayed.

Oils definitely known to have at last reached those shores were:—2 casks and 2 drums of geranium oil; 7 packages and 5 barrels of lavender oil; 24 drums of orange oil; and 6 drums of rosemary. In addition there were 62 barrels, 7 drums, and 34 cases of merchandise described as "essential oils."

Higher quotations on spot developed on sweet almond, coriander, peppermint and spearmint oils. There was also an improved call for alpha amyl cinnamic aldehyde, the ionone group, paracresolethyl and paracresolmethyl ether, phenyl ethyl alcohol, as well as many compounds sold by producers under individual trade descriptions.

Price Changes

Advanced

Almond, sweet, 10c. per lb.
Coriander, $1 per lb.
Peppermint, natural, 40c. per lb.
redistilled, 40c. per lb.
Spearmint, 15c. per lb.

Reduced

None

Comparative Values

Index numbers compiled from twenty typical essential oils on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
173.5	172.1	166.3	95.7

Market news that may have developed after this report was sent to press will be found on page 4.

Essential Oils

Almond.—Strong. In low supply. Higher at $1.05 to $1.10 per pound. Replacement indeterminate.

Amyris.—Small stocks sufficient for current needs.

Anise. — Firmer undertones persist. Fair call. Little competition.

Cajeput.—Firm to firmer. Moving well within jobbing limits.

Camphor.—More inquiry and a gain in sales strengthens prices.

Cananga.—Replacement almost impossible due to war. No offerings.

Capsicum (Oleoresin).—Good movement in volume about normal.

Caraway.—Practically wiped out of spot stocks. No replacement.

Cassia.—Advances in primary market maintained. Very firm locally.

Citronella.—Firm. Steady consumption. Replacement slow, Ships lacking.

Clove.—Some report inability to delivery promptly. Very firm.

Coriander.—Higher at $16.25 to $16.75 per pound. Recent arrivals of seed brought lower spot prices for same.

Croton.—Firm but not very active. Stocks conservative.

Cumin.—In low supply. Not readily replaceable. Almost nominal.

Dill. — Moving slowly. Situation about normal for seasonal reasons.

Erigeron.—Slight gain in jobbing sales. Steady.

Eucalyptus.—Firm. Active up to seasonal limits. Little competition.

Geranium.—Substitutes getting main call. Arrivals from Martinique totaled 2 casks and 2 drums.

Grapefruit.—Apparently firm. Local movement normal.

Grapeseed.—Small sales imported oil at 20c. per pound. Large quantities available 15c. basis. Narrow market. Domestic 35c.

Juniper.—Still a nominal market. Increased collection domestic berries may encourage further domestic oil manufacture.

Juniper Tar.—Very steady. Moderate stocks. Limited demand now.

Lavender.—Arrivals from Martinique totaled 7 packages and 5 barrels last week; also, 12 drums from Spain. Badly needed. Ready market for anything available.

Lemon.—Domestic makers supplying home requirements nicely. Firm, well stabilized supply and prices. Demand at seasonal limits.

Lemongrass.—Arrivals noted. Firm prices. Fair request.

Lime.—Little competition. Firm undertones. Moderate call.

Linaloe.—Steady to firm. Fair request reaches dealers.

Mace.—Firmly maintained. Deliveries none too prompt.

Mustard.—Domestic makers maintain completely stable market. Consumption running no normal poundage.

Nutmeg.—Movement up to recent levels. Prices very firm.

Orange.—No shortage. All needs met at attractive prices. Outlook favors continuation favorable position.

Patchouli.—Sellers reserved. Prices very firm. Moderate stock.

Peppermint.—Higher. Natural, $3.65 to $3.90 per pound. Redistilled, $3.90 to $4.15. Moderate stocks concentrated in strong hands.

Petitgrain.—Very firm. In normal demand and moderate reserve.

Pineneedle.—Sellers reserved. Replacement indeterminate. No shading.

Rosemary.—Arrivals last week from Martinique totaled 6 drums.

Sage.—Future stocks have poor outlook. Acute scarcity likely.

Savory.—No open market offerings. Little chance to renew stocks.

Spearmint.—Higher at $2.75 to $3 per pound. Stocks moderate and in strong hands. Further rise not unlikely.

Thyme.—Movement from source uncertain. Sellers reserved. No known arrivals for long time past.

Aromatic Chemicals

Alphaamylcinnamic Aldehyde.—Domestic item finding increasing favor.

Diethyl Phthalate.—Good market at firm prices.

Dimethyl Hydroquinone.—Consumption running to good volume. Firm.

Diphenyl Methane.—Inquiry and sales on upgrade. Market firmer.

Diphenyl Oxide.—Normal activity changed to gain in demand. Firmer.

Epenone.—Quiet, but in well stabilized position.

Ethyl Aubepine.—Good movement maintains firm price position.

Ethyl Phenylacetate.—Routine activity. Fully maintained prices.

Ethyl Vanillin.—Vanilla bean situation increases demand for this item. Price stabilization continued.

Eucalyptol.—Seasonal consumption running well to normal.

Eugenol.—Firm in keeping with the strengthened raw material market.

Eugenol Methyl Ether.—Still in steady demand. And firm in price.

Geraniol.—Consumption holding up excellently. Very steady.

Geranyl Acetate.—Quiet, but steady, consumption at full prices.

Geranyl Formate.—Call irregular. Market still very steady.

Current prices on essential oils and aromatic chemicals are given in the alphabetical list of prices beginning on page 7

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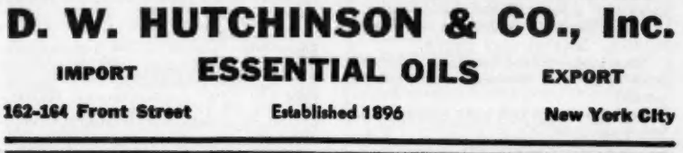

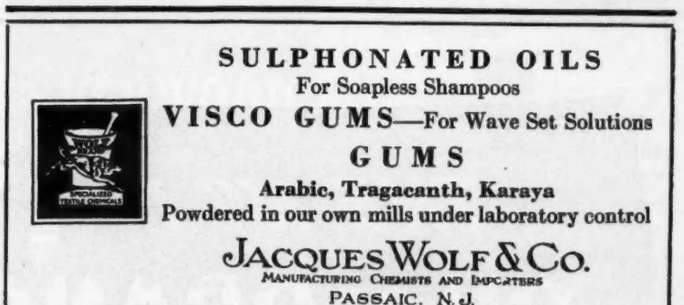

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Heliotropine.—Domestic production coping with home needs very satisfactorily. Firm prices.

Hyacinth Geraniol.—Very steady. In moderate, but sustained, call.

Hydroxycitronellal.—Excellent consumption. Production meeting all home requirements propmtly.

Ionone.—Home manufacturers meet concentrated consuming demand well.

Indol.—Domestic item compares very favorably with formerly imported material.

Isobornyl Acetate. — Only moderate stocks available. Very firm.

Isobutyl Acetate.—Firm. Better demand creates broad distribution.

Isoeugenol.—Steady, well-maintained market at full prices.

Isosafrol.—Steady to firmer. Moving satisfactorily.

Menthol.—Higher at $4 to $4.10 per pound. Upward tendency less apparent as replacement markets grow quieter.

Novoviol.—Item used by soap manufacturers moving steadily. Prices apparently firm.

Paracresol Ethyl Ether. — Domestic manufacturers supplying home needs adequately at attractive prices.

Paracresol Methyl Ether.—Domestic product developed to point of high quality. Values steady and attractive.

Pelargol.—Deliveries prompt. Prices steady. Demand normal.

Phenyl Acetaldehyde.—All qualities move well. Very steady.

Phenylacetic Acid. — Call normal. Undertones steady to firmer.

Phenylethyl Alcohol. — Domestic product finding high favor. Needs covered amply. Prices attractive.

Phenyl Butyrate.—Call moderate but steady. Mainly jobbing.

Phenylethyl Phenyl Actate.—Rather dull, but still in steady price position.

Phenylethyl Propionate. — Steady. Under moderate call. Fair stock.

Phenylethyl Valeriate. — In limited supply. Price firm to strong.

Phenylpropyl Alcohol.—Inquiry and sales up. Prices firmer.

Phenylpropyl Aldehyde. — Activity routine. Market very steady.

Rhodinol.—Home product sole reliance of buyers. Strong around $25 per pound.

Scatol.—Quiet but very steady. Moderate supplies.

Food, Drug & Cosmetic Inst. Formed with Kegan Sec'y

Food, Drug & Cosmetic Institute has been organized in Chicago, with Albert I. Kegan, 77 West Washington street, as counsel and executive secretary. The institute states that the membership is not limited to manufacturers of any one type of product, but is open to all who are affected by Federal or State food, drug or cosmetic laws; that the institute has a scientific laboratory and a staff at the disposal of its members; and that it is a medium for collectively representing its members before governmental agencies.

Bids Wanted

Acetone:—5,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Alcohol, Ethyl:—30,000 gallons; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Antimony Sulphide:—2,800 pounds; Commanding Officer, Picatinny Arsenal, N. J.; procurement 1631, opening February 17.

Carbon Disulfide:—1,000 gallons; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Chrome Yellow:—3,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Cleaning Compound:—2,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Coaltar Pitch:—10,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Cuprous Oxide:—3,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Dibutyl Phthalate:—72,700 pounds; Commanding Officer, Picatinny Arsenal, N. J.; procurement 1626, opening February 14.

Dinitrotoluene: — 194,200 pounds; Commanding Officer, Picatinny Arsenal, N. J.; procurement 1595, opening February 13.

Glue, Animal:—1,000 pounds; General Purchasing Officer, Panama Canal, Washington, schedule 4790, opening February 17.

Lacquer:—1,210 gallons black air drying; Chemical Warfare Service, Edgewood Arsenal, Md.; invitation 911, opening February 11.

Lampblack Pigment:—5,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Lard Oil:—1,000 gallons; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Magnesium Silicate:—1,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Medical Specialties:—As required during the period April 1, 1941 to March 31, 1942, Procurement Division, Veterans Administration, Washington, D. C.; invitation 368, opening February 12.

Methyl Chloride Gas:—800 gallons; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Muriatic Acid:—3,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Nitric Acid:—10,500 pounds, Naval Supply Depot, Norfolk, Va.; schedule 3157, opening February 13.

Nitrocellulose: — 1,500,000 pounds; Commanding Officer, Picatinny Arsenal, N. J.; procurement 1579, opening February 11.

Paint:—6,000 gallons; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Coldwater:—6,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Prussian Blue:—200 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Putty, Whiting:—10,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Lead, Red:—100,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Rosin, Powdered:—6,000 pounds; General Purchasing Officer, Panama Canal, Washington, schedule 4790, opening February 17.

Rust Preventive:—20,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Sienna, Burnt:—1,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

500 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Raw:—500 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Silica, Pulverized:—4,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Soap, Laundry:—500,000 pounds; Quartermaster Supply Officer, Army Base, Brooklyn; invitation 626-343, opening February 17.

210,000 pounds; Quartermaster Supply Officer, Army Base, Brooklyn; invitation 626-243, opening February 12.

Soda Ash:—5,000 pounds, Depot Quartermaster, Marine Corps, Philadelphia, Pa.; schedule 962, opening February 14.

Bichromate:—4,000 pounds, Commanding Officer, Picatinny Arsenal, N.J.; procurement 1588, opening February 13.

Caustic:—4,000 12 oz. cans; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Soda, Caustic:—17,300 pounds; Quartermaster Supply Officer, Army Base, Brooklyn; invitation 626-343, opening February 17.

45,000 pounds; Quartermaster Supply Officer, Army Base, Brooklyn; invitation 626-343, opening February 12.

Laundry—79,000 pounds; Quartermaster Supply Officer, Army Base, Brooklyn; invitation 626-343, opening February 12.

Phosphate: — 3,900 pounds; Quartermaster Supply Officer, Army Base, Brooklyn; invitation 626-343, opening February 12.

Silicofluoride: — 500 pounds; Quartermaster, Marine Corps, Washington; schedule 961, opening February 14.

Starch, Laundry:—42,660 pounds; Quartermaster Supply Officer, Army Base, Brooklyn; invitation 626-343, opening February 12.

Sulphuric Acid: — 1,980 pounds; Naval Supply Depot, Norfolk, Va.; schedule 3157, opening February 13.

Tallow:—1,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Trichlorethylene: — 2,000 gallons, Commanding Officer, Picatinny Arsenal, N. J.; procurement 1614, opening February 17.

Turpentine:—2,000 gallons, Procurement Division, Treasury Department, Washington, D. C.; invitation 9556-85, opening February 13.

6,000 gallons; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Ultramarine Blue:—600 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

300 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Umber, Burnt:—1,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

1,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Raw:—1,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Varnish, Mixing:—3,000 gallons; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Venetian Red:—6,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Vermilion:—300 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Whiting:—2,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4790, opening February 17.

Yellow Ochre:—800 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Zinc Oxide:—150,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

Pigment:—10,000 pounds; General Purchasing Officer, Panama Canal, Washington; schedule 4789, opening February 18.

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Petroleum Products

Demand for Petroleum Products Slackens But Market Remains Firm — Crude Scale Paraffin Lowered at New York — Midcontinent Bright Stocks Higher

A slight slackening in demand for certain refined petroleum products was reported last week. The lessened activity did not tend to make the market easier, however, most suppliers maintaining previous quotations. Buyers had ordered heavily late last year and in the early part of this year and were apparently well stocked. As a result, contract call and new business both were slower.

The general market for petroleum naphthas and solvents was firmly maintained, although several items were moving more slowly. Aromatic naphthas remained in good call, with offerings fewer. Lighter fractions were moving in normal fashion, with butane and propane in strong call. Lack of demand forced suppliers of crude scale paraffin to lower prices at New York. The market for petrolatums and white mineral oils was routine.

The strength of bright stocks in Pennsylvania markets, noted for the past several weeks, was reflected in the Midcontinent during the period under review. Prices were advanced. One buyer advanced the crude oil price in an Illinois field. Gasoline was hiked in New York and New England by one supplier.

Price Changes

Advanced

Gasoline, tankcar, 2/10c. to 3/10c. per gal., N.Y. and N. Eng.
Oil, lubricating, bright stocks, 1c. per gal., Group 3.
Petroleum, crude, bulk, at wells, Carmi Storms County, Ill., 5c. per bbl.

Reduced

Paraffin, crude scale, 15 points per lb., f.o.b. N.Y.

Market news that may have developed after this report was sent to press will be found on page 4.

Solvents and Diluents

Aromatic Naphthas.—In good call. Offerings fewer. No. 40 grade unavailable. Prices steady and unchanged.

Cleaners' Naphtha.—Normal movement. Inquiries more numerous. Price unchanged.

Lacquer Diluent.—Movement continued through narrow channels. New business was for conservative amounts. Price firm.

Mineral Spirits. — Consumers continued actively interested in offerings. Shipments were fairly large. Prices steady.

Rubber Solvent.—Paint and rubber manufacturers were buying less last week and shipments decreased during the period. This was due, primarily, to the fact that they had stocked heavily early in the year. Price was firm and unrevised.

Stoddard Solvent.—Call from the paint trade remained insistent. The cleaning industry was showing less interest in offerings. Price was steady and unchanged.

V. M. & P. Naphtha.—Movement into consumption remained satisfactory to prominent refiners. New business was off. Price was steady.

Markets at Other Centers

Chicago—Feb. 7

Generally good call for materials is reported in petroleum solvents and diluents. Trade is mostly along lines dictated by seasonal considerations, but opening of interest in some lines is shown, with aromatic and mineral spirits products featuring the market.

AROMATIC NAPHTHAS.—In good demand. Prices firm.

CLEANERS' NAPHTHA.—Good call. Market steady.

LACQUER DILUENT.—Fair buying. No change in price.

MINERAL SPIRITS.—Inquiry and orders brisk. Market unchanged.

RUBBER SOLVENTS.—Buyers interested, with price steady.

STODDARD SOLVENT.—Buying moderate. Quotations holding.

V. M. & P. NAPHTHA.—Trade active, market stable.

New Orleans—Feb. 7

A normal demand continued to be evidenced in the domestic market on cleaning solvent and V. M. & P. naphtha, with prices remaining unchanged.

CLEANING SOLVENT.—Demand slow; price steady.

V. M. & P. NAPHTHA.—Normal demand; price unchanged.

San Francisco—Feb. 7

Special products in the petroleum derivatives field are finding a currently good demand from all reports here during the past week, but the movement is largely a routine one and no particular noteworthy developments took place in the market. Government interest in the market continues to highlight the situation. Trade took its usual weekly requirements.

AROMATIC NAPHTHAS.—Steady and unchanged.

CLEANERS' NAPHTHA.—Demand is not too brisk.

PETROLEUM THINNERS.—Demand good.

LACQUER DILUENT.—Current takings in the market are along very fair lines.

V. M. & P. NAPHTHAS.—Firm; trade requirements good.

RUBBER SOLVENT.—Los Angeles rubber factories taking a good volume.

STODDARD SOLVENT.—Steady and unchanged.

Tulsa—Feb. 7

Trading in solvents and naphthas quieted down this week as most of the month's ordering was done during the last week of January. However, there were a number of inquiries from new sources which heretofore have been inactive in the market. Quotations appeared to be about steady with an undertone of easiness for shipments into the Chicago territory.

CLEANERS' NAPHTHA.—Trading quiet. Prices irregular.

STODDARD SOLVENT.—Demand routine. Quotations steady.

RUBBER SOLVENT.—Fair demand. Quotations unchanged.

V. M. & P. NAPHTHA.—Moderate inquiries. Price unrevised.

LACQUER DILUENT.—Routine business. Quotations steady.

Lighter Fractions

Butane.—Offerings were restricted further as strong demand continued unabated. Supplies were scarce. Price firm to strong.

Heptane.—Normal trade was reported. Shipments were more or less routine. New business was small. Price steady.

Hexane.—Business was at previous levels. Routine deliveries were made. Inquiries were fair. Price unchanged.

Octanes.—Conservative buying was reported. Consumers were ordering in routine fashion. Price was firm and unrevised.

Pentanes.—A slight broadening was noted, with buyers coming into the market for larger amounts. Price unchanged.

Current prices on petroleum and its products are given in the alphabetical list of prices beginning on page 7

Association Meetings:—
Liq. Pet. Gas Ass'n, Feb. 24-25, Chicago.
Nat. Pet. Ass'n, April 25-26, Cleveland.

Propane.—The market remained strong. Demand continued very heavy, with shipments in large volume. Some marketers were curtailing offerings.

Markets at Other Centers

Chicago—Feb. 7

Good call for various grades of light petroleum hydrocarbons is reported. Butane has been attracting special interest. Pentanes also were attracting more attention. In general this division of petroleum markets appears to be showing considerably better demand-and-supply tone.

BUTANE.—Demand strong. Prices firm.

HEPTANE.—Fair call at unchanged levels.

HEXANE.—Moderate demand. Quotations steady.

OCTANES.—Routine activnty. No change in price.

PENTANES.—Better buying. Firmer price tone.

PROPANE.—Demand strong, price hardening.

Petrolatums and Waxes

Paraffins.—The price of crude scale material in the Eastern market was lowered 15 points per pound to a level of 2.50c. to 2.65c. The drop reflected a slackening of domestic demand, coupled with the continued lack of export call. Refined grades were moving in routine fashion.

Petrolatums.—Consumers continued to show disinterest in buying ahead. Deliveries during the period were routine. New Business was off. Prices were firm and unchanged.

White Mineral Oils.—The market continued sluggish. Shipments remained small in volume. Prices were unchanged.

Markets at Other Centers

Chicago—Feb. 7

Slow and rather easy market conditions have been reported in petrolatums and waxes. Inquiry has been less brisk in some directions. Paraffin business has

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- *EFFECTIVE*
- *ECONOMICAL*

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been confined mostly to early needs of buyers. Petrolatums are attracting only routine type interest and white mineral oil business has been quiet.

PARAFFIN.—Buying restricted. Prices easy.

PETROLATUMS.—Fair call, no change in price.

WHITE MINERAL OILS.—Demand fair, prices holding.

Tulsa—Feb. 7

Trading remains quiet in parafiin and petrolatums. The market lacks vigor, although the easiness of Eastern market is not reflected in quotations, which remain unchanged.

PARAFFIN.—Routine demand. Prices steady.

PETROLATUMS.—Trading quiet. Quotations firm.

Fuels and Lubricants

Gasoline. — Socony-Vacuum Oil Company, Inc., advanced tankcar price 2/10c. to 3/10c. per gallon throughout New York and New England. Demand routine.

Kerosene.—Good demand. Prices firm.

Lubricating Oils. — Pennsylvania bright stocks very strong but unchanged. Demand good.

Crude Oil Price Changes

Ohio Corporation advanced price on Carmi Storms County, Ill., crude 5c. per barel to $1.10.

Markets at Other Centers

New Orleans—Feb. 7

Gasoline demand continued small, with quotations unaltered. There was no change in the demand for kerosene—the movement being slow.

GASOLINE.—Demand routine; no price change.

KEROSENE.—Market slow; unchanged price.

Chicago—Feb. 7

Gasoline irregular, with consumption retarded. Kerosene holding its own but demand is not brisk. Lubricating oils showing better tone.

GASOLINE. — Market spotty, prices easy.

KEROSENE.—Quiet demand, no price change.

LUBRICATING OILS.—Better feeling. Prices firming.

Tulsa—Feb. 7

Demand for gasoline was small.

GASOLINE.—Contraction in trading. Prices irregular.

KEROSENE.—Demand fair. Prices steady.

LUBRICANTS.—Increase in inquiries. Prices rising.

Shell Union Honors Duhig For 35 Years of Service

S. W. Duhig, vice-president and treasurer of Shell Union Oil Corporation and the oldest Shell employee in New York City in point of service, was honored with a luncheon at the Waldorf-Astoria recently. The affair was attended by 355 employees of the Shell company in this city, all of whom have been with the company ten years or longer. Mr. Duhig, who started with the company as a clerk in the California oil fields, was presented with a thirty-five year service award by Alexander Fraser, president, who gave the luncheon.

Texas Corp. Asked to Pay $244,893 as Chain Tax

Austin, Tex., Feb. 7, 1941

Collection of $244,893 in chain-store taxes from the Texas Company, a subsidiary of the Texas Corporation, has been requested by Attorney-General Mann. The taxes are for operation of the company in 1936, in which year, the State contends, the company was operating between 300 and 400 dealer stations. The Attorney-General pointed out that, while the retail of gasoline and such petroleum products were exempt, the liability fell because of the sale of such accessories as tires, tubes and batteries.

Asphalt Institute Names Macatee Ass't Director

The Asphalt Institute has named W. R. Macatee to the newly created post of assistant managing director. Mr. Macatee has been serving as director engineer with office in the Transportation Building, Washington, D. C., where he has effectively coordinated the institute's work with national defense measures, particularly in the airport construction program. Mr. Macatee will continue in charge of the Washington Office of the institute.

Crude oil gross receipts tax in Texas would be increased from two and three-fourths cents per barrel to five cents by a bill that will be introduced in that State's legislature. The bill would also call for a one-cent-per-cubic-feet tax levy on natural gas production.

Fertilizer Materials

Fertilizer Materials Market Quiet But Generally Firm — Less Interest in Feed Materials — Feed Tankage Lowered at New York — Hoofmeal Higher at Chicago

The general fertilizer materials market continued to mark time in most sections of the country last week. Eastern and Midwestern mixers were still concerned with the manufacture of their first batches of finished products and active shipping operations were not as yet under way. Southern mixers have been shipping for several weeks but there was no large call for replacement of raw stocks.

The interest in feed products, active for several weeks, abated during the period under review. Feed tankage was offered at a lower price in the New York area. Hoofmeal was advanced at Chicago, where all prices were either firm or showing signs of strength. Cottonseed meal continued to decline at Southeastern mills. Sulphate of ammonia remained very scarce and in heavy call for export. Nitrate of soda movement was slowly expanding. The market for potashes and crude sulphur remained routine and firm.

Price Changes

Advanced

Hoofmeal, 17-18%, bulk, 5c. per unit, f.o.b. Chi.

Reduced

Cottonseed meal, 8%, 50c. per ton, Southeast mills.

Tankage, feeding, ungrd., 10c. per unit, f.o.b. N.Y.

Comparative Values

Index numbers compiled from four typical fertilizer materials on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
68.0	68.0	68.0	67.0

Market news that may have developed after this report was sent to press will be found on page 4.

Nitrogenates

Ammonia Phosphate.—Demand remained at about the same level as in the previous week. Offerings were limited. Price firm and unchanged.

Anhydrous Ammonia.—A slightly better demand appeared. No change in price.

Cyanamid.—Producers were not offering freely due to the small stocks on hand. Small-sized orders were being placed for forward delivery. Price firm and unrevised.

Dried Blood. — Less interest was shown in feed stocks. Fertilizer grades moving along routine lines. Prices steady and unchanged.

Fish Scrap.—No offerings of Chesapeake Bay menhaden scrap or Japanese sardine meal reported. Prices nominal.

Nitrate of Soda.—The contract call for material continued to broaden during the period under review. Shipments were slightly larger. Inquiries were more numerous. Price was steady and unchanged.

Nitrogenous Material. -- No change in price at the East Coast or in the Midwest. Demand holding evenly.

Sulphate of Ammonia.—Export demand remained extremely heavy, with offerings made at about $42 per ton. Supplies very small.

Tankage.—Price of the feed material reduced 10c. per unit at New York to level of $2.65 and 10c. All other prices firm and unchanged.

Potashes

Consumers were more or less inactive, having already taken the major portion of their needs. A few scattered demands for supplies appeared in the market but they were mostly for small accounts. It was reported there was a fairly good export call and also a demand for resale material. Prices remained firm and unchanged.

Phosphates

Bone Materials.—There was less interest in offerings of material for feed use. Fertilizer grades were moving in normal manner. All prices were firm and unchanged.

Phosphate Rock.—Offerings normal, with deliveries not especially large. Prices steady and unrevised.

Superphosphate. — Fair call reported. Inquiries fewer. Prices steady and unchanged.

Sulphur and Pyrites

Market for crude sulphur firm during the period under review. Offerings and demand were at about the same level as in the preceding week. A pick-up in interest is looked for in the near future.

Markets at Other Centers

Atlanta—Feb. 7

Some of the sulphuric plants of larger fertilizer companies in the South, which have been idle for several years, have been started into production. Preparedness demands are credited with plans for increased production. The volume of inquiries for fertilizer materials is reported increasing. Cottonseed meal and peanut meal have been declining in prices. Quotations of leading materials in this market are as follows:—

SUPERPHOSPHATE.—55c per unit, interior manufacturing points.

NITRATE OF SODA.—$27 per ton, bulk, port basis.

SULPHATE OF AMMONIA.—Quoted at $28 per ton with sales at higher levels.

COTTONSEED MEAL.—8 percent grade, $28 to $28.50, Southeastern mill points.

BLOOD.—Imported $2.50 per unit, ports; Chicago, $3.

TANKAGE.—Imported $2.75 and 10c., ports.

NITROGENOUS.—$1.95 per unit, Milwaukee.

Baltimore—Feb. 7

With last sales of crude fertilizer materials virtually unchanged in the matter of price, the market presents an appearance of quiet. Expectations are more encouraging, with some indications of a tendency toward increasing firmness, if not a positive advance.

FISH SCRAP. — Quotations on fish scrap and menhaden meal seem to show a tendency to hold out for higher prices, though one car of scrap was disposed of during the past week at $48 per ton in North Carolina, the figure that had been realized in previous transactions. Scrap is now held at $51 per ton and menhaden meal at $54 per ton in Florida, where the opening of the new fishing season is still some time off.

SUPERPHOSPHATE. — There appears to be a complete absence of new developments in the market for this material, which is being called for on a moderate scale and is moving at the old figures of $6 per ton for run-of-pile and at $8.50 per ton for 16 percent flat supplies.

TANKAGE.—The uneventfulness in the market on this ammoniate continues to persist, with unground material held at $2 and 10c. per unit-ton, and with the buying interest at a low point at this level.

DRIED BLOOD.—Supplies have been fairly well taken up, with limited offers of domestic stocks available around $3 per unit-ton. Last business was done around $2.75 per unit-ton.

BONE.—Firmness in this ammoniate continues to be a feature of the market, with 1 and 60 held at $38 per ton, c.i.f. The 4½ and 50 domestic raw stocks appear to be scarce.

SULPHATE OF AMMONIA.—The market appears to be steady at the figure named in the last trading, this being $45 per ton. Further transactions are reported on this basis, and while no further advance is to be reported, the market seems to be well supported at the level mentioned.

Chicago—Feb. 7

Generally firm to strong conditions appear to be prevailing in the fertilizer materials market. Buying, while not particularly active, has been fairly good and has kept a firm background for the recent improvement in prices. Blood has been moving fairly well. Interest in tankage is moderate, with values holding firm. Bone materials are having little difficulty in maintaining their positions.

BLOOD.—Principal grade, $3 per unit of ammonia.

TANKAGE.—High grade, feeding, $2.75 and 10c.; liquid stick, $1.50 to $1.60; hoof meal, $2.75 to $2.80.

BONE MATERIALS.—Ground, steamed bone, 1¼ and 60 percent, $39 to $40; 3 and 50 percent, $34 to $35; 4½ and 50 percent, $31 to $32; grinding hoofs, pigs' toes and waste horn materials, $34 to $35; cattle jaws, skulls and knuckles, $30 to $35; beef cracklings, soft pressed, $32.50 to $35; pork cracklings, soft pressed, $35 to $37.50; hard pressed cracklings, per unit of protein, 60c. to 62½c.

San Francisco—Feb. 7

Shipping instructions on all manner of fertilizer raw materials and finished goods are brisk and the market is activated by continued new buying interest in many classifications. Organic products are especially firm and the movement is somewhat narrow due to the lack of supplies. Sulphate of ammonia is a feature in the resale market, with reports last week of trading on a $47.50 per ton basis for bagged lots and $45 named for bulk. Nitrate of soda is having a good volume of business.

SULPHATE OF AMMONIA.—Lots on the resale market reported sold at $47.50 per ton, bagged. Bulk, $45.

SUPER PHOSPHATE.—Domestic, 80c. per unit in bulk, f.o.b. San Francisco. Bags, 91c.

NITRATE OF SODA.—100-pound bags, $28.70 per ton, ex-vessel or warehouse. Bulk, $27.

FISH MEAL.—Strong. Spot, 67 percent protein meal, $55 per ton, f.o.b. San Francisco Bay; 65 percent protein, $53, f.o.b. Monterey.

TANKAGE.—Strong. Stocks light, sellers sold ahead. Wet rendered, $3 and 10c. per unit-ton, f.o.b. plant. Dry rendered, ground, 50 percent, $40 per ton, f.o.b. cars, South San Francisco. Unground, domestic, dry rendered, 70c. per unit of protein, f.o.b. cars, South San Francisco.

BLOOD.—Steady at $3 to $3.10 per unit, f.o.b. cars, Northern California.

Coronet Phosphate Elects J.R. Sheffield President

John R. Sheffield, former assistant European director for the Phosphate Export Association, with offices at London, has been named a director and president of the Coronet Phosphate Company, this city. A graduate of Massachusetts Institute of Technology, Mr. Sheffield was with the Dorr Company, plant equipment manufacturer, this city, until 1933, when he became associated with the Phosphate Recovery Corporation, also this city. He was named to the export association post in 1936 and held it until 1939.

Union Potash to Merge With Int'l Agriculture

A special meeting of stockholders of Union Potash & Chemical Company, Denver, 94.89 percent of whose outstanding preferred stock and 55.86 percent of whose common stock is presently owned by International Agricultural Corporation, this city, has been called for March 11, 1941, in Denver, to approve a proposed agreement of merger between Union Potash & Chemical Company and International Agricultural Corporation.

The agreement provides for the merger of International Agricultural Corporation with Union Potash & Chemical Company, the name of which will be changed, upon consummation of the merger, to International Minerals & Chemical Corporation. In the event of favorable consideration of the merger agreement by Union Potash & Chemical stockholders, a special meeting of the stockholders of International Agricultural Corporation will be called to approve the agreement.

Trade Briefs

Bradley & Baker, fertilizer materials, this city, has moved its Florida office to 1252 West Bever street, Jacksonville.

Fertilizer Manufacturing Cooperative, Inc., Baltimore, has completed construction of a tank for storage of sulphuric acid.

Union Fertilizer Corporation, of Pikesville, about seven miles from Baltimore, has been chartered to deal in fertilizers, with an authorized capital of 500 shares of a par value of $100 each. A. S. Sergent, of Pikesville; Paul J. Walsh, of Hampstead, Carroll county, and Bernard F. Macatee, jr., of Baltimore, are the incorporators of record.

Chilean Trade Official Here Until February 20

Carlos Campbell, commercial counselor for the Chilean Embassy and a member of the Inter-American Development Commission, arrived here last week, and will remain until February 20 when he will leave for Chile to take charge of the promotion of industry and manufacture of goods for export to this and other markets. He is making his headquarters at the offices of the Chilean consul general, 9 Rockefeller Plaza.

Millmaster Chemical Moves

The Millmaster Chemical Company has moved to larger quarters at 551 Fifth avenue, this city. The company, of which Robert J. Milano is manager, is a manufacturers' agent and supplier of fine and industrial chemicals. The plant and laboratory is located at 43 West Sixteenth street, this city.

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Current prices on fertilizer materials are given in the alphabetical list of prices beginning on page 7

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20 bls, Kachurin Drug Co, Kobe
10 bls, Kachurin Drug Co, Kobe
15 bls, T M Duche & Sons, Kobe

ALOE—2 cs, Bombay

AMMONIA PERCHLORATE—400 pkgs, Fort de France

ANNATTO SEED—25 bgs, J Heinskill Soap Works, Kingston
100 bgs, J B Long & Co, Kingston
50 bgs, D Steengrafe, Kingston

ANTIMONY ORE—978 bgs, Bank of Manhattan, Mollendo
114 bgs, Callao
115 bgs, Callao

ARECA LEAVES — 1 cs, Chase National Bank, Rio de Janeiro

ARSENIC, RED—8 cyls, A Lehman, Fort de France
WHITE—97 bbls, American Smelting & Refining Co, Tampico

ASPHALT—4 dms, Stendrup Co, Tampico

BISMUTH, LEAD—168 cs, Cerro de Pasco Copper Co, Callao
REFINED—148 cs, Cerro de Pasco Copper Co, Callao

BONE MEAL—1,000 bgs, Buenos Aires

BRISTLES—7 cs, M Broverman & Son, Kobe
50 cs, N Wagman Co, Kobe
50 cs, F H Cone & Co, Kobe
25 cs, B J Shapiro, Kobe
25 cs, H Rosenbirach Co, Tientsin
75 cs, B J Shapiro, Tientsin
9 cs, N Wagman Co, Tientsin
150 cs, A Hurst & Co, Rangoon
150 cs, Bowring & Co, Rangoon
7 cs, F H Cone & Co, Kobe
25 cs, F H Cone & Co, Kobe
25 cs, Chesnut, Cooper & Co, Kobe
21 cs, F H Cone & Co, Kobe

CAMPHOR, REFINED—200 cs, Mitsubishi Shoji Kaisha, Kobe

CAROB BEANS—2 bgs, Dubakot & Wolff, Lisbon

CASEIN—1,250 bgs, American British Chemical Supplies, Buenos Aires
1,000 bgs, American British Chemical Supplies, Buenos Aires
834 bgs, Chase National Bank, Buenos Aires
532 bgs, Buenos Aires
417 bgs, American Cyanamid & Chem Co, Buenos Aires
834 bgs, Chase National Bank, Buenos Aires
520 bgs, Buenos Aires

CASSIA—213 bls, Batavia
100 bls, Arnhold & Co, Kobe
50 bls, S L Jones & Co, Kobe

CASTOR BEANS—3,700 bgs, Guaranty Trust Co, Santos
775 bgs, Pan American Trust Co, Santos
7,036 bgs, Baker Castor Oil Co, Santos

CHILLIES—100 bgs, F S Ehrlich & Co, Kobe
112 bgs, W E Martin, Kobe
300 bgs, A G Dunn, Kobe
200 bgs, A G Dunn, Kobe

COCA LEAVES—130 bls, Maywood Chem Works, Salaverry

COCOA BEANS—1,500 bgs, National City Bank, Bahia
2,600 bgs, Bank of London South America, Bahia
7,500 bgs, Bahia
10,000 bgs, National City Bank, Bahia
1,500 bgs, Bahia
600 bgs, Machado & Co, La Guaira
257 bgs, Daarnhouwer & Co, La Guaira
60 bgs, Meyer & Co, Puerto Cabello
350 bgs, H E Botzow Co, Puerto Cabello
750 bgs, Guayaquil
860 bgs, W Bartholomew & Co, Guayaquil
250 bgs, Wessel, Kulenkampf & Co, Trujillo
310 bgs, A A Lindo & Co, Puerto Limon
103 bgs, Cristobal
136 bgs, Fruit Despatch Co, Cristobal
250 bgs, Cristobal
72 bgs, Wessel, Duval & Co, Cristobal
400 bgs, Struller & Wood, Port Prince
250 bgs, Farr & Co, Trinidad
250 bgs, Wood & Selick, Trinidad
250 bgs, Farr & Co, Trinidad

COCONUT, DESIC—730 cs, Wilbur Ellis & Co, Manila
420 bgs, Philippine Decis Coconut Co, Manila
602 pkgs, Durkee Famous Food, Manila
580 cs, Wilbur Ellis & Co, Manila
84 cs, Philippine Desic Coconut Co, Manila
682 cs, Dodwell & Co, Manila
112 cs, General Food Sales Corp, Manila
1,868 bgs, General Food Sales Corp, Manila

COCONUT SHELL CHARCOAL—3,392 bgs, American Overocean Corp, Manila
3,162 bgs, American Overocean Corp, Manila
2,308 bgs, General Food Sales Corp, Manila

COCONUTS—500 bgs, Universal Import & Export Co, Kingston
500 bgs, General Food Sales Corp, Kingston

COPAIBA BALSAM—20 dms, W R Grace & Co, Cristobal
59 pkgs, Orbis Product Co, Manaos
56 pkgs, Fritzsche Bros, Manaos
3 dms, Wessel, Duval & Co, Cristobal
2 dms, W R Grace & Co, Cristobal
5 dms, W R Grace & Co, Cristobal
5 dms, Geo Uhe & Co, Cristobal

CORIANDER SEED—600 bgs, R H Elmaleh Corp, Fort de France
1,000 bgs, French Line, Fort de France
500 bgs, R H Elmaleh Corp, Fort de France
330 bgs, I Levy, Fort de France
360 bgs, A G Dunn, Fort de France
350 bgs, A G Dunn, Fort de France

CORK—27 bls, Armstrong Cork Co, Fort de France
46 bgs, Mundet Cork Corp, Lisbon
13 bgs, L N Renault, Lisbon

DISCS—100 bls, Armstrong Cork Co, Fort de France

WOOD—25 bls, Mundet Cork Corp, Lisbon

COTTON LINTERS—6 bls, W R Grace & Co, Mollendo
593 bls, Buenos Aires
69 bls, W R Grace & Co, Mollendo
34 bls, W R Grace & Co, Callao

CUMIN SEED—462 bgs, French Line, Fort de France
123 bgs, A G Dunn, Fort de France

CYANIDE PRECIP—58 cs, South American Development Co, Guayaquil

DRUGS—45 bgs, Peek & Velsor, Buenos Aires

FISH SOUNDS—32 bls, Venezuela

FLEASEED—75 bgs, Rene Moelhausen, Fort de France
25 bgs, Rene Moelhausen, Fort de France

FLORAL WATER—3 bbls, Lo Curto & Funk, Fort de France

FLUE DUST—755 bgs, American Metal Co, Tampico

GINGER ROOT—120 bgs, Kingston

GLUE SKIN—270 bgs, Buenos Aires

GLUESTOCK—115 bls, Manufacturers Trust Co, Vera Cruz

GUM, ARABIC—250 bgs, R J Prentiss & Co, Bombay
260 bgs, McKesson & Robbins, Bombay
300 bgs, American Cyanamid & Chem Co, Bombay
80 bgs, S B Penick & Co, Bombay
20 bgs, Frank Vliet Co, Bombay
250 bgs, Kachurin Drug Co, Bombay
202 bgs, Bombay
25 bgs, Paul A Dunkel & Co, Bombay
250 bgs, E Meer & Co, Bombay
250 bgs, Innis, Speiden & Co, Bombay
100 bgs, Laxseed, Bombay
800 bgs, Thurston & Braidich, Bombay
200 bgs, Paul A Dunkel & Co, Bombay
20 bgs, Colony Import & Export Co, Bombay
150 bgs, Frank Vliet Co, Bombay
1,000 bgs, Bombay

CHICLE—74 bls, Chicle Development Co, Kingston

COPAL—327 bgs, O G Innes Corp, Macassar
31 baskets, O G Innes Corp, Macassar
320 baskets, Macassar
127 baskets, G W S Patterson & Co, Macassar
122 baskets, Irving Trust Co, Macassar
64 bgs, G W S Patterson & Co, Macassar
390 baskets, Macassar
129 baskets, Irving Trust Co, Macassar
196 baskets, O G Innes Corp, Macassar
137 baskets, Manufacturers Trust Co, Macassar
218 baskets, Guaranty Trust Co, Macassar
219 baskets, Chase National Bank, Macassar
71 baskets, Manufacturers Trust Co, Macassar
68 bgs, Chase National Bank, Macassar
71 baskets, O G Innes Corp, Macassar
70 bgs, O G Innes Corp, Macassar
210 bgs, O G Innes Corp, Macassar
438 bgs, Strocck & Wittenberg, Manila

DAMMAR—200 cs, Manufacturers Trust Co, Batavia
300 cs, Chase Natl Bank, Batavia
100 cs, National City Bank, Sourabaya
150 cs, G W S Patterson & Co, Batavia
100 bgs, G W S Patterson & Co, Batavia
100 cs, S Winterbourne & Co, Batavia
422 cs, Thurston & Braidich, Batavia
1,050 cs, Thurston & Braidich, Batavia

ELEMI—140 cs, American Specialty Co, Manila

KARAYA—100 bgs, S B Penick & Co, Bombay
67 bgs, Frank Vliet Co, Bombay
135 bgs, T M Duche & Sons, Bombay
100 bgs, S B Penick & Co, Bombay
67 bgs, Frank Vliet Co, Bombay

MYRRH—5 cs, Bombay

OLIBANUM—40 bgs, Bombay
72 cs, Bombay
33 cs, Bombay

PERILLO—21 bls, Chicle Development Co, Cristobal

HOREHOUND LEAVES—346 bls, Fort re France

INSULIN—13 cs, Eli Lilly & Co, Rio Janeiro

IPECAC ROOT—11 bgs, Murbas Trading Co, Puerto Limon
13 bgs, Wessel, Duval & Co, Cristobal

IRISH MOSS—144 bgs, England

JALAP ROOT—20 bgs, Vera Cruz
21 bgs, Vera Cruz

KYANITE ORE—1 bg, Downing Trading Co, Calcutta

LAVENDER FLOWERS—5 bls, Rene Moelhausen, Fort de France
22 bls, Rene Moelhausen, Fort de France

LIVER MEAL—800 bgs, Guaranty Trust Co, Auckland

LOGWOOD—47 tons, W & A Leaman, Kingston

MACE—16 cs, Batavia

MANGANESE ORE—2 bgs, Philip Bauer Co, Callao
1 bg, Downing Trading Co, Calcutta
3 cs, W R Grace & Co, Rio Janeiro

MEDICINAL PREPS—2 cs, A F Maurer, Vera Cruz
1 cs, Synthetic Patents Co, Rio Janeiro
2 cs, Eli Lilly & Co, Rio Janeiro

MENTHOL—60 cs, Kachurin Drug Co, Shanghai

MICA—20 cs, Buenos Aires
7 cs, Ford Radio & Mica Corp, Rio Janeiro
9 cs, Eugene Munsell & Co, Rio Janeiro
34 cs, F D Pitts Co, Inc, Rio Janeiro
BLOCK—16 cs, Heyman & Co, Calcutta
2 cs, Gillespie-Rogers-Pyatt Co, Calcutta
DISC—18 cs, Gillespie-RogersPyatt Co, Calcutta
FILM—5 cs, Gillespie-Rogers-Pyatt Co, Calcutta
SPLITTINGS—20 cs, Heyman & Co, Calcutta
382 cs, Gillespie-Rogers-Pyatt Co, Calcutta
170 cs, E J Cornelis, Calcutta

MUSTARD SEED—336 bgs, B H Old & Co, Tientsin
311 bgs, Arnhold & Co, Shanghai

NUTMEGS—124 bgs, Bank of Manhattan, Batavia
60 bgs, Catz American Co, Macassar
132 bgs, Macassar
128 bgs, Catz American Co, Macassar
320 bgs, Catz American Co, Macassar
240 cs, Bank of London South America, Macassar
160 cs, Catz American Co, Macassar
132 bgs, Macassar

OIL, CAMPHOR—10 dms, Ungerer & Co, Yokohama
11 dms, Lauter Fils, Inc, Yokohama
10 dms, Dodge & Olcott Co, Yokohama

CANANGA—1 dm, Ungerer & Co, Batavia

OIL, CITRONELLA—30 dms, Guaranty Trust Co, Batavia
15 dms, Guaranty Trust Co, Batavia
58 dms Colgate-Palmolive-Peet Co, Batavia
26 dms, Catz American Co, Batavia
27 dms, Catz American Co, Batavia

COCONUT—466 tons, Wecoline Prod, Inc, Manila
377 tons, L N Jackson & Co, Manila

COD—25 dms, Canada

CODLIVER—36 dms, Vitamerican Oil Co, Yokohama
24 dms, Vitamerican Oil Co, Yokohama

ESSENTIAL—8 dms, 17 cs, Tombarel Prod Co, Fort de France
14 bbls, Fritzsche Bros, Fort de France
23 bbls, A Chiris Co, Fort de France
16 cs, Lo Curto & Funk, Fort de France
15 bbls, Lo Curto & Funk, Fort de France
1 cs, Fort de France
28 bbls, H A Sothern, Puerto Barrios

EUCALYPTUS—1 cs, W R Grace & Co, Buenaventura

FISH LIVER—7 dms, Atlantic Coast Fisheries Corp, Yokohama
14 dms, Consumers Import Co, Yokohama

FUEL—10,000 bbls, Asiatic Petroleum Corp, Curacao
10,000 bbls, Asiatic Petroleum Corp, Curacao

GERANIUM—2 cks, Ungerer & Co, Fort de France
2 dms, Ronre Dupont, Inc, Fort de France

LAVENDER—7 pkgs, Fritzsche Bros, Fort de France
5 bbls, Eric Coupey, Fort de France
10 dms, Irving Trust Co, Seville
2 dms, Compagnie Palenco, Seville

LEMONGRASS — 3 dms, Ungerer & Co, Cochin
5 dms, Maywood Chem Co, Cochin
5 dms, Van Ameringen Haebler, Cochin
5 dms, Dodge & Olcott Co, Cochin

LIME DIST—6 dms, Fritzsche Bros, Trinidad
1 dm, 5 cs, Van Ameringen Haebler, Trinidad
36 dms, Dodge & Olcott Co, Trinidad

NAPHTHENIC RESIDUE — 72 dms, Oil Chem Prod Co, Tampico

ORANGE — 14 cs, T M Duche & Sons, Santos
24 dms, Naugatuck Aromatics, Fort de France
2 dms, Fritzsche Bros, Kingston
5 dms, R Dreyer, Kingston
10 cs, Dodge & Olcott Co, Kingston

PATCHOULI—6 dms, Givaudan Delawanna, Batavia
4 dms, Corn Exchange Bank Trust Co, Batavia
4 dms, Continental Bank Trust Co, Batavia
3 dms, Volkart Bros, Batavia
1 dm, National City Bank, Batavia
2 dms, Guaranty Trust Co, Batavia
6 dms, Corn Exchange Bank Trust Co, Batavia
4 dms, Chase National Bank, Batavia
2 dms, Volkart Bros, Batavia
4 dms, Continental Bank Trust Co, Batavia
10 dms, Dodge & Olcott Co, Batavia

POLLACK LIVER — 547 dms, Consumers Import Co, Yokohama
500 dms, Consumers Import Co, Yokohama

ROSEMARY—6 dms, Naugatuck Aromatics, Fort de France
2 dms, Compagnie Palenco, Lisbon
5 dms, Corn Exchange Bank Trust Co, Lisbon

ROSEWOOD—16 dms, Stern, Stiner & Co, Manaos

TEASEED—75 dms, Paul A Dunkel & Co, Shanghai

VETIVER—1 dm, Volkart Bros, Batavia
1 dm, National City Bank, Batavia
1 dm, Continental Bank Trust Co, Batavia
3 dms, Bank of Manhattan, Batavia
1 dm, National City Bank, Batavia
8 dms, Guaranty Trust Co, Batavia
4 dms, Geo Uhe & Co, Batavia
1 dm, Manufacturers Trust Co, Batavia

YLANG YLANG — 1 cs, Ungerer & Co, Manila

ORRISROOT—15 bls, R H Elmaleh Corp, Fort de France

PAPRIKA—60 bgs, H Schoenfeld & Son, Lisbon
50 bgs, Safeowl Prod Co, Lisbon
200 bgs, J B De Macedo, Lisbon

PEPPER—100 bgs, Tampico
BLACK—450 bgs, Irving Trust Co, Batavia
1,425 bgs, H P Winter & Co, Batavia
1,350 bgs, Public Natl Bank Trust Co, Oosthaven
1,225 bgs, Catz American Co, Batavia
726 bgs, Catz American Co, Batavia
225 bgs, H P Winter & Co, Cheribon
4,656 bgs, Catz American Co, Batavia
450 bgs, H P Winter & Co, Batavia
6,615 bgs, Catz American Co, Telok Betong
WHITE—164 bgs, Batavia
172 bgs, Catz American Co, Batavia
494 bgs, Batavia
344 bgs, Catz American Co, Batavia
243 bgs, National City Bank, Batavia
176 bgs, L A Guide, Batavia
344 bgs, Catz American Co, Oosthaven
746 bgs, Catz American Co, Oosthaven

PERFUME, SYN—5 cs, Givaudan-Delawanna, Lisbon

PIMENTO—35 bgs, Barclay Bank, Kingston

POTASH CHLORATE — 1,425 cns, Fort de France
31 cs, H H Rosenthal Co, Yokohama
400 cs, Manufacturers Trust Co, Yokohama

QUEBRACHO EXTRACT—525 bgs, International Product Corp, Buenos Aires
2,100 bgs, International Product Corp, Buenos Aires

QUININE SULPHATE—34 cs, R W Greeff & So, Batavia

SAVORY LEAVES—21 bls, Rene Moelhausen, Fort de France

SESAME SEED—25 bgs, Cristobal
600 bgs, Ataka & Co, Shanghai
112 bgs, O Hurst & Co, Shanghai
780 bgs, Ataka & Co, Shanghai
1,080 bgs, Ataka & Co, Shanghai

SHELLAC—100 bgs, E J Cornelis, Calcutta
25 cs, A Hurst & Co, Calcutta
175 bgs, A Hurst & Co, Calcutta
150 bgs, E E Androvette, Calcutta
25 cs, A Hurst & Co, Calcutta
1,100 bgs, A Hurst & Co, Calcutta

BUTTON LAC—25 bgs, A Hurst & Co, Calcutta

GARNET LAC—100 bgs, Ralli Bros, Calcutta

SHELLAC, SEEDLAC—300 bgs, Mantrose Corp, Calcutta
200 bgs, Wm Zinsser & Co, Calcutta
100 bgs, Grace Natl Bank, Calcutta
100 bgs, MacLae Co, Calcutta
100 bgs, Wm Zinsser & Co, Calcutta

SOAP BARK—231 bls, W R Grace & Co, Valparaiso

SOFT—2 bbls, C Happel, Kobe

SPONGES—20 bls, American Sponge & Chamois Co, Vera Cruz
2 bls, Nassau
13 bls, Schroeder & Tremayne, Nassau

TALC—339 pkgs, C B Chrystal & Co, Kobe

TANKAGE—347 bgs, Napier
112 bgs, Tupman, Thurlow & Co, Auckland
672 bgs, Tupman, Thurlow & Co, Auckland

TAPIOCA FLOUR—761 bgs, American Cyanamid & Chem Co, Batavia
2,907 bgs, Stein, Hall & Co, Sourabaya
500 bgs, Bank of Manhattan, Sourabaya
2,735 bgs, Stein, Hall & Co, Sourabaya
500 bgs, Morningstar-Nicol, Sourabaya
1,922 bgs, Stein, Hall & Co, Sourabaya
1 cs, H P Winter & Co, Batavia
500 bgs, W R Grace & Co, Semarang
760 bgs, American Cyanamid & Chem Co, Batavia
500 bgs, Irving Trust Co, Sourabaya
500 bgs, Morningstar-Nicol, Batavia
500 bgs, Morningstar-Nicol, Batavia
10 bgs, Rockland Laundry Co, Havana
1,320 bgs, Rutger, Bleecker & Co, Batavia
550 bgs, American Cyanamid & Chem Co, Batavia
500 bgs, Balfour, Guthrie & Co, Batavia
250 bgs, American Cyanamid & Chem Co, Batavia
1,250 bgs, Stein, Hall & Co, Batavia
500 bgs, American Cyanamid & Chem Co, Batavia
250 bgs, H P Winter & Co, Batavia
3,264 bgs, Stein, Hall & Co, Cheribon
544 bgs, H P Winter & Co, Cheribon
1,632 bgs, H P Winter & Co, Cheribon
3,264 bgs, Stein, Hall & Co, Tjilatjap
3,650 bgs, Stein, Hall & Co, Tjilatjap
5,155 bgs, Stein, Hall & Co, Tjilatjap
500 bgs, H P Winter & Co, Batavia
750 bgs, Stein, Hall & Co, Tjilatjap
2,008 bgs, Stein, Hall & Co, Batavia
250 bgs, H P Winter & Co, Batavia
1,550 bgs, Stein, Hall & Co, Cheribon
1,350 bgs, Stein, Hall & Co, Tjilatjap
500 bgs, Stein, Hall & Co, Batavia
3,220 bgs, Stein, Hall & Co, Cheribon
6,962 bgs, Stein, Hall & Co, Tjilatjap
1,500 bgs, H P Winter & Co, Batavia
903 bgs, Stein, Hall & Co, Batavia
1,500 bgs, H P Winter & Co, Cheribon
2,190 bgs, Stein, Hall & Co, Tjilatjap
417 bgs, Guaranty Trust Co, Rio Janeiro
17 bgs, Rio Janeiro

TFAWASTE—2,000 bgs, Citro Chem Co, Calcutta
522 bgs, Maywood Chem Works, Calcutta

THYME LEAVES—150 bls, Rene Moelhausen, Fort de France
60 pkgs, Rene Moelhausen, Fort de France

TIN BARRILLO—1,000 bgs, Belivian Mining Corp, Arica

TIN AND WOLFRAM ORE—1,031 bgs, W R Grace & Co, Mollendo

TOLU BALSAM—18 cs, S Grazi & Co, Barranquilla
12 cs, Wessel, Duval & Co, Barranquilla

TONKA BEANS—8 bbls, Guaranty Trust Co, La Guaira
6 cks, 1 cs, Irving Trust Co, Trinidad

TUNGSTEN ORE—75 bgs, Callao

VANILLA BEANS—10 tins, Bank of Manhattan, Batavia
60 cs, Vera Cruz
49 cs, New York & Cuba Mail S S Co, Vera Cruz
114 cs, F Huber & Co, Vera Cruz
20 cs, New York & Cuba Mail S S Co, Vera Cruz
21 cs, New York & Cuba Mail S S Co, Vera Cruz
10 cs, Bank of Manhattan, Batavia
9 cs, Dammann & Smeltzer, Batavia

WAX, BAYBERRY—14 bgs, D Steengrafe, Buenaventura

BEES—26 bgs, Schutte & Focke, Trujillo
160 bgs, Smith & Nichols, Santos
7 bgs, Galban & Co, Callao
100 bgs, Smith & Nichols, Santos
22 bgs, Pan American Export Agency, Puerto Barrios
10 bgs, J A Medina & Co, Puerto Barrios
80 bgs, Leghorn Trading Co, Santos

CARNAUBA—60 bgs, Bank of London South America, Bahia
67 bgs, Lenape Trading Co, Bahia
67 bgs, Chase National Bank, Bahia
33 bgs, Bank of London South America, Rio Janeiro
70 bgs, Strohmeyer & Arpe Co, Bahia
313 bgs, Strohmeyer & Arpe Co, Bahia
328 bgs, Strohmeyer & Arpe Co, Bahia

OURICURY—32 bgs, National City Bank, Bahia
56 bgs, Bahia
66 bgs, A Hurst & Co, Bahia
56 bgs, Strohmeyer & Arpe Co, Bahia
17 bgs, Strohmeyer & Arpe Co, Bahia

VEGETABLE—200 cs, H H Rosenthal Co, Kobe
50 cs, Kobe

WINE LEES—244 bgs, Lisbon
234 bgs, Lisbon
112 bls, Sayer & Co, Fort de France

WOLFRAM, CONC—500 bgs, Chase National Bank, Antofagasta
ORE—464 bgs, W R Grace & Co, Arica
502 bgs, W R Grace & Co, Mollendo

New York Transit Imports

CHILLIES—200 bgs, Frank Tea & Spice Co, Kobe, Cincinnati

GUM, KAURI—600 bgs, Auckland, Montreal
40 cs, Lilly Varnish Co, Auckland, Indianapolis

TANKAGE—190 bgs, Auckland, Montreal

Baltimore Imports

CHROME ORE—1,008 tons, Beira

GASOLINE—112,491 bbls, Petrol Terminals, Curacao

IRON ORE—21,200 tons, Bethlehem Steel Co, Cruz Grande
5,700 tons, Bethlehem Steel Co, Daiquiri
21,500 tons, Bethlehem Steel Co, Cruz Grande

MANGANESE ORE—8,240 tons, Vizagapatam
3,750 tons, Santiago de Cuba
1,250 tons, Vizagapatam

OIL, FUEL—66,000 bbls, Standard Oil Co N J, Las Piedras
79,164 bbls, Standard Oil Co N J, Aruba
PETROLEUM, CRUDE—75,564 bbls, Pan American Ref Corp, Las Piedras
SODA NITRATE—2,427 tons, Tocopilla
TANKAGE—1,550 cks, 9 bgs, Buenos Aires
WATTLE BARK—1,416 bgs, Durban

Boston Imports

BRISTLES—80 cs, N Wagman Co, Tientsin
GUM, ARABIC—150 bgs, Calcutta
MICA SPLITTINGS—40 cs, Heyman & Co, Calcutta
100 cs, Gillespie-Rogers-Pyatt Co, Calcutta
SESAME SEED—240 bgs, Brokerage Co, Shanghai
SHELLAC—200 bgs, A Hurst & Co, Calcutta
200 bgs, Calcutta
50 bgs, E E Androvette, Calcutta

Los Angeles Imports

ANTIMONY ORE—85,000 lbs, Iguala
APRICOT KERNELS—60 lbs, Hongkong
BALSAM—600 lbs, San Salvador
COCONUT, DESIC—40,250 lbs, Manila
COPRA—3,360,000 lbs, Cebu
1,120,000 lbs, Davao
1,120,000 lbs, Phil Islands
1,104,320 lbs, Cebu
MEAL—4,500 bgs, 450,000 lbs, Manila
9,660 bgs, 966,000 lbs, Manila
CUMIN SEED—11,200 lbs, Bombay
DRUGS, ADVANCED—260 lbs, Hongkong
CRUDE—1,070 lbs, Hongkong
60 lbs, Hongkong
FISH LIVERS—64 tins, 2,560 lbs, Japan
1,000 tins, 34,000 lbs, Yokohama
109 tins, 4,360 lbs, Sydney
GINGER ROOT—500 lbs, Hongkong
1,500 lbs, Hongkong
INCENSE—120 lbs, Kobe
MEDICINAL PREPS—4 lbs, Hongkong
NUTMEGS—11,070 lbs, Sourabaya
OIL, ESSENTIAL—20 lbs, Hongkong
LUBRICATING—5 dms, Vancouver
PALM—739,750 lbs, Medan
POLLACK-LIVER—41,700 lbs, Tokyo
PAINT, ARTISTS'—280 lbs, London
PEANUT MEAL—1,500 lbs, Buenos Aires
PEATMOSS—80,640 lbs, Glasgow
PEPPER, BLACK—11,030 lbs, Batavia
22,400 lbs, Madras
WHITE—11,710 lbs, Batavia
SESAME SEED—15,000 lbs, Hongkong
SODA NITRATE—3,436,200 lbs, Tocopilla
THYME LEAVES—4,000 lbs, Seville

Norfolk Imports

BONE MEAL—1,113 bgs, Barber & Garrett, Buenos Aires
2,000 bgs, Consolidated Chemical Industries, Buenos Aires
1,113 bgs, Barber & Garrett Buenos Aires
BONES—1,000 bgs, Hafleigh & Co, Buenos Aires
FISH SCRAP—1,438 bgs, J C Jett & Co, Buenos Aires
TANKAGE—549 bgs, J C Jett & Co, Buenos Aires
508 bgs, Buenos Aires

Philadelphia Imports

CAMPHOR, REFD—20 cs, Tama
CASSIA—34 bls, Brown Bros & Harriman Co, Padang
COTTONSEED MEAL—2,204 bgs, National City Bank of New York, Santos
2,240 bgs, Santos
2,688 bgs, Santos
FLAXSEED—2,629 bgs, Buenos Aires
1,300 tons and 7,762 bags, Mar del Plata
LEAD-TETRAETHYL—404 dms, E H Baily & Co, Batavia
MANGANESE ORE—10,100 tons, E J Lavino & Co, Takoradi
2,000 bgs, Philadelphia National Bank, Manila
MOLASSES—841,421 gls, Pennsylvania Sugar Refining Co, Preston
584,100 gls, Pennsylvania Sugar Refining Co, Port Tarafa
433,296 gls, Pennsylvania Sugar Refining Co, Jucaro
OIL, COCONUT—299 tons, Brown Bros & Harriman Co, Cebu
FUEL—77,000 bbls, Socony Vacuum Trans Co, Aruba
PETROLEUM, CRUDE—400,384 bbls, Gulf Oil Corp, Las Piedras
89,615 bbls, Gulf Oil Corp, Puerto la Cruz
103,294 bbls, Gulf Oil Corp, Puerto la Cruz
TAPIOCA FLOUR—510 bgs, Chase National Bank, Batavia
1,760 bgs, Philadelphia National Bank, Batavia
240 bgs, Batavia
PEARL—150 bgs, National Bank New York, Batavia
WAX, VEGET—50 pkgs, Kobe
100 cs, Tama
ZIRCONIUM ORE—900 bgs, Phila National Bank, Santos

San Francisco Imports

CHILLIES—100 bgs, S L Jones & Co, Kobe

Imports Detained

Detentions recently effected at various ports by United States authorities on determination by the Food and Drug Administration that products offered for import were adulterated or misbranded under the Federal food and drug and cosmetic act, or did not comply with other customs regulations, included the following articles for the reason stated:—

New York

Week Ended February 5

Apricot pits, 36 bags; restricted use.
Belladonna leaves, 19 bales; not U.S.P.
Cinnamon bark, 105 bags; not cinnamon bark.
Cocoa, 39,988 bags; water damaged.
Coriander seed, 1,000 bags; filthy.
Cumin seed, 462 bags; filthy.
Henbane, 134 packages; not U.S.P.
Marjoram, 160 bags; dirty.
Medicinal preparations, 2 cases; false and misleading statements.
Medicinal prepartions, 1 parcel; new drug.
Medicinal preparations, 1 package; new drug.
Medicinal preparations, 1 package; dangerous drug.
Medicinal preparations, 3 cases; not properly labeled.
Nutmegs, 72 bags; moldy.
Nutmegs, 623 bags; restricted use.
Nutmegs, 509 bags; restricted use.
Olive oil, 95 cases; not properly labeled.

Baltimore

Cottonseed meal, 13,640 bags; water damaged.
Fertilizer mixture, 6,626 bags; restricted use; false and misleading statements.
Fertlizer mixture, 40,219 bags; restricted

Boston

Week Ended February 5

Cocoa beans, 1,100 bags; water damaged.
Cod oil, 335 drums; restricted use.
Cod oil, 230 barrels; restricted use.
Medicinal preparations, 2 cases; false therapeutic claims.
Medicinal preparations, 1 case; not properly labeled.

Buffalo

Week Ended February 5

Medicinal preparation, 1 device; false and misleading statements.

Philadelphia

Week Ended February 5

Medicinal preparations, 1 package; false therapeutic claims.
Medicinal preparations, 2 cartons; dangerous drug.
Medicinal preparations, 1 package; new drug; false therapeutic claims.
Medicinal preparaions, 2 packages; new drug; dangerous drug; false therapeutic claims.

San Francisco

Week Ended January 30

Cocoa butter, 200 pounds; filthy.
Medicinals, 775 pieces; false therapeutic claims.
Medicinals, 40 pieces; manufacturer not stated; quantity contents not stated; dangerous to health.

Exports from U.S. Ports

Los Angeles Exports

ACID, ACETIC—10 lbs, Amapala; 2,510 pkgs, 282,240 lbs, Sydney
BORIC—10 kgs, 1,000 lbs, Barranquilla; 70 bgs, 7,840 lbs, Melbourne; 2,510 bgs, 282,240 lbs, Sydney
CRESYLIC—128,610 lbs, San Antonio
NITRIC—70 lbs, Amapala
ASPHALT—63 dms, 29,120 lbs, Balboa
PRIMER—2 dms, 1,050 lbs, Panama
BENTONITE—500 bgs, 50,000 lbs, Pladjoe
BORATE—6,832 bgs, 1,287,380 lbs, Osaka
BORAX—1,198 bgs, 198,870 lbs, Osaka; 350 cs, 35,000 lbs, Lourenco Marques; 120 bgs, 13,440 lbs, Melbourne; 500 bgs, 56,000 lbs, Sydney; 160 bgs, 17,920 lbs, Bombay
CHEMICALS—450 lbs, Bogota
CLAY, FILTER—40 sks, 2,000 lbs, Johannesburg; 400 bgs, 20,160 lbs, Barranquilla; 640 sks, 31,810 lbs, Lima; 400 sks, 20,160 lbs, Valparaiso; 80 bgs, 4,000 lbs, Bombay
CLEANER—10 cs, 840 lbs, Panama; 40 lbs, Mexicali; 800 lbs, Hongkong
COLOR, DRY—1,030 lbs, Hongkong; 10,500 lbs, Manila
COPPERAS—1,000 lbs, Amapala
COTTONSEED—8,000 lbs, Tientsin
DIATOMACEOUS EARTH—1,000 bgs, 100,000 lbs, Pimentel; 336 bgs, 33,600 lbs. Jerusalem; 160 bgs, 16,000 lbs, Arecibo; 340 bgs, 34,000 lbs, Mayaguez; 400 bgs, 40,000 lbs, Ponce
GASOLINE — 3,782 bbls, Balboa/Cristobal; 11,357 bbls, Tsurumi; 10,916 bbls, Tokuyama
GREASE—10 cs, 300 lbs, Manila
LUBRICATING — 87 pkgs, 11,370 lbs, Panama; 17 dms, 7,570 lbs, Tientsin; 3,600 lbs, Batavia; 800 lbs, Semarang
IODINE—100 lbs, Manila
LACQUER—590 lbs, Havana; 600 lbs, Bogota; 900 lbs, Callao; 310 lbs, Bombay
THINNER—110 lbs, Bogota; 640 lbs, Callao; 310 lbs, Bombay
LUBRICANTS—250 lbs, Manila
MINERAL SPTS—95 pkgs, 28,120 lbs, Panama
OIL, ALMOND, SWEET—80 lbs, Guayaquil
DIESEL—35,381 bbls, Balboa; 33,985 bbls, Balboa/Cristobal; 335 dms, Tientsin
FUEL—33,508 bbls, Balboa; 20,484 bbls, Antofagasta; 33,846 bbls, Bolivia; 11,138 bbls, Vancouver
LEMON—500 lbs, Melbourne; 1,500 lbs, Sydney
LINSEED—7 dms, 2,760 lbs, Corinto; 7,500 lbs, Manila
LUBRICATING—95 pkgs, Panama; 3 dms, Yokohama; 30 dms, Tientsin; 48 pkgs, Manila; 525 dms, Bombay; 27 dms, Batavia; 15 dms, Semarang; 618 dms, Bombay; 15 dms, Bahrein Island; 320 dms, Basrah
ORANGE—150 lbs, Melbourne
PALM, HYDROG—625 bgs, 100,000 lbs, Manila
PAINT—20,120 lbs, Bogota; 8,170 lbs, Balboa
PECTIN, CITROUS—1,500 lbs, Sydney
PETROLEUM, CRUDE—72,768 bbls, Tsurumi; 70,044 bbls, Tokuyama
POTASH IODIDE—500 lbs, Bombay
MURIATE—1,500 bgs, 300,160 lbs, Manila
PUTTY—60 lbs, Callao
SODA, CAUSTIC—5,600 lbs, Manila
PHOSPHATE, DI—3,000 lbs, Manila
SULPHUR DIOXIDE—120 lbs, Manila; 40 lbs, Sourabaya
TALC—240 bgs, 12,000 lbs, Barranquilla; 45 bgs, 4,500 lbs, La Guaira; 800 bgs, 40,000 lbs, Manila; 100 bgs, 22,400 lbs, Manila
TOILET PREPS—830 lbs, Guatemala; 520 lbs, Rangoon; 750 lbs, Bombay
VARNISH—440 lbs, Bogota
ZINC STEARATE—500 lbs, Bogota

New Orleans Exports

ACETELYENE—2 tons, Puerto Cabezas
ACID, STEARIC—5 tons, Havana
ALUMINA SULPHATE—198 tons, Cristobal
CARBIDE—24 tons, Cristobal
CLAY—34 tons, Vera Cruz
ETHER—1 ctn, Puerto Cabezas
GASOLINE—299 tons, Puerto Cabezas
GLUCOSE—14 tons, Barranquilla
KEROSENE—12 tons, Panama
LARD—36 tons, Puerto Limon; 135 tons, Havana; 36 tons, Cristobal; 52 tons, West Coast South America
LIME, HYDRATED—400 tons, Celba
LITHOPONE—26 tons, Havana
OIL, AVIATION—12 tons, Puerto Cabezas
DIESEL—86 tons, Celba
FUEL—273 tons, Celba
PARAFFIN—30 tons, West Coast South America
ROSIN, GUM—14 tons, Barranquilla
WOOD—12 tons, Puerto Limon; 35 tons, West Coast South America
SALT—58 tons, Havana
SODA, CYANIDE—56 tons, Puerto Cabezas
TURPENTINE—22 tons, Havana

Philadelphia Exports

CLEANER—5 dms, Calcutta
COLOR, COALTAR—200 dms, Madras
CYANIDE, CRUDE—5 dms, Madras
OIL, COALTAR—40 dms, Rangoon
LUBRICATING—10 cs, Palembang; 21 cs, Batavia; 154 cs, Medan; 61 cs, Sourabaya; 15 cs, Semarang; 82 cs, Soengei Gerong, 13 dms, Calcutta; 2 dms and 30 cs, Colombo
RESIN, SYNTH—11 dms, Calcutta

Foreign Trade Rules

Information recently published by the Department of Commerce on foreign tariff and related trade regulations include the following:—

Coconut Fats:—Sweden has ruled that coconut fats used as substitutes for butter, lard, synthetic lard or margarin are subject to excise and supplementary excise taxes totaling 0.70 crown per net kilogram.

Cottonseed Oil:—Paraguay has levied a compensatory tax of 15 pesos per kilogram on cottonseed oil held in stock in Paraguay as of November 27, 1940, imported under the recent duty-free import quotas.

Fats:—Sweden has placed imports of fats under government control in order to centralize the remaining available imports, as a result of the increasing shortage of fats in that country.

Petroleum Solvents:—Uruguay has specifically classified solvents derived from petroleum in the drugs and chemical products schedule of the import tariff at a fixed official customs valuation of 0.20 peso per net kilogram, with a resultant reduction in the amount of the import duty on this product.

Quinine:—The importation into the Dominican Republic of sulphate of quinine from the United States will be permitted only through the Dominican Department of Sanitation.

Naphthalene: — Uruguay has increased the official customs valuations for naphthalene, and naphthalene flakes. The fixed official customs valuation for naphthalene in general is increased from 0.12 to 0.20 peso per kilogram, and the offcial valuation for naphthalene flakes is increased by reclassification from 0.10 to 0.25 peso per kilogram. The import duty is 48 percent, plus a surtax of 22.5 percent, on the fixed official customs valuations mentioned above.

Soda Phosphate:—Venezuela has reduced the import duty on soda phosphate from 2 bolivares to 0.30 bolivar per gross kilogram.

U.S.P. and N.F. Drugs:—India has issued instructions to the Import and Trade Controllers at Bombay, Calcutta, Madras and Karachi that any preparation which is for the time being recognized by the United States Pharmacopeia or by the National Formulary of the United States will also be regarded as not covered by the expression "Proprietary and Patent Medicines" for the purpose of import trade control.

Vegetable Oils:—The Cuban consumption tax of one cent per Spanish pound (1.0161 pounds) on edible vegetable oils and fats and edible animal fats has been suspended.

Coastwise Shipments

Los Angeles Coast Trade

GASOLINE—2,256 bbls, Seattle; 27,151 bbls, Seattle; 9,047 bbls, Seattle; 2,030 bbls, Seattle; 76,300 bbls, Martinez; 10,867 bbls, San Diego; 2,615 bbls, San Diego; 2,700 bbls, San Diego; 1,490 bbls, San Diego; 47,396 bbls, Seattle; 68,162 bbls, Portland
OIL, DIESEL—9,090 bbls, Seattle; 6,365 bbls, Seattle; 55,119 bbls, San Francisco; 2,718 bbls, San Diego; 1,400 bbls, San Diego; 7,861 bbls, Seattle; 7,177 bbls, Portland
FUEL—66,725 bbls, Portland; 67,403 bbls, Richmond; 66,588 bbls, Avon; 2,487 bbls, Portland; 35,207 bbls, Seattle; 3,041 bbls, Portland; 67,396 bbls, El Segundo
FURNACE—1,855 bbls, Seattle; 5,296 bbls, Portland
SOLVENTS—2,154 bbls, Seattle; 52,252 bbls, Paulsboro

Corporation Earnings Recently Reported

	Period.	1940 Net income.	1940 Per share.	1939 Net income.	1939 Per share.
American Hide & Leather Co.	6 mos.	*$25,953	..	$345,846	$0.37
Armour & Co. (Ill.)	53 wks.	$4,560,339	$0.28	$3,265,167	*$0.04
Atlantic Refining Co.	12 mos.	6,219,000	$2.11	5,023,282	1.66
Atlas Powder Co.	12 mos.	1,784,429	5.71	1,299,137	3.82
Canada Dry Ginger Ale	12 mos.	1,002,261	1.63	1,156,704	1.88
Canadian Ind. Alcohol Co., Ltd	12 mos.	220,112	0.20	212,348	0.19
Celotex Corp.	12 mos.	747,628	.96	741,756	.95
Continental-Diamond Fibre Co.	3 mos.	331,556	0.74	49,496	0.11
Crown Zellerbach Corp.	6 mos.	3,836,975	1.11	3,662,982	1.03
Cunningham Drug Stores, Inc.	12 mos.	608,891	3.00	521,816	2.62
Devoe & Raynolds Co., Inc.	12 mos.	249,920	1.16	397,256	2.06
Dow Chemical Co.	6 mos.	3,585,015	3.02	3,445,111	3.19
DuPont, E. I. deNemours & Co.	12 mos.	86,945,173	7.23	93,218,664	7.70
Freeport Sulphur Co.	12 mos.	3,033,472	3.81	2,200,762	2.76
Firestone Tire & Rub. Co.	12 mos.	8,632,608	3.02	6,722,046	2.03
Glidden Co.	12 mos.	1,727,329	1.56	1,853,549	1.70
Goodrich, B. F. Co.	12 mos.	6,104,993	3.10	6,628,746	3.51
Hecker Products Corp.	6 mos.	304,016	.20	689,940	.43
Hecla Mining Co.	9 mos.	591,945	0.39	296,496	0.24
Hercules Powder Co.	12 mos.	5,807,770	4.01	5,324,992	3.65
Howe Sound Co.	12 mos.	1,724,269	3.64	2,491,409	5.25
Illinois Zinc Co.	3 mos.	105,334	1.11	33,082	.35
Industrial Rayon Corp.	12 mos.	2,392,477	3.15	1,348,924	1.78
International Vit. Corp.	3 mos.	47,872	0.24	35,519	0.17
Jones & Laughlin Steel Corp.	12 mos.	10,277,029	10.70	3,188,944	..
Lee Rubber & Tire Corp.	12 mos.	981,887	3.66	1,464,166	5.46
Lehn & Fink Products Co.	6 mos.	212,873	.78	216,995	.79
Leslie Salt Co.	12 mos.	706,650	3.10	632,796	2.78
Masonite Corp.	16 wks.	343,257	0.58	441,059	0.77
Mathieson Alkali Works, Inc.	12 mos.	1,587,812	1.72	1,095,962	1.12
National Oats Co.	12 mos.	21,000	.21	103,089	1.03
New Jersey Zinc Co.	12 mos.	8,236,815	4.19	5,299,055	2.70
Owens-Illinois Glass Co.	12 mos.	7,186,000	2.70	8,484,915	3.17
Paraffine Cos., Inc.	6 mos.	673,525	1.31	955,627	1.91
Pennsylvania Coal & Coke Corp.	12 mos.	*55,230	..	*95,026	..
Pharis Tire & Rubber Co.	12 mos.	13,812	0.06	490,123	2.27
Pittsburgh Coke & Iron Co.	12 mos.	1,000,624	1.44	542,759	.70
Procter & Gamble Co.	6 mos.	9,610,027	1.45	14,586,538	2.23
Republic Steel Corp.	12 mos.	21,113,507	3.30	10,671,343	1.46
Seiberling Rubber Co.	12 mos.	219,480	0.26	828,792	2.68
Spencer Kellogg & Sons, Inc.	12 mos.	1,395,290	2.74	662,481	1.30
Standard Oil Co. of Ohio	9 mos.	4,325,576	5.14	.....	.....
Sun Oil Co.	12 mos.	7,969,068	3.03	6,959,677	2.74
Sunshine Mining Co.	12 mos.	2,556,136	1.72	3,173,238	2.13
Swift & Co.	12 mos.	11,183,484	1.89	10,321,523	1.74
Tide Water Associated Oil Co.	12 mos.	9,550,000	1.15	8,858,971	1.05
United States Leather Co.	12 mos.	5,787	..	150,572	..
U. S. Smelting, Rfg. & Min. Co.	10 mos.	4,568,409	6.06	4,250,625	5.46
United States Steel Corp.	12 mos.	102,181,321	8.84	41,119,934	1.83
Vick Chemical Co.	3 mos.	1,044,247	1.52	1,071,939	1.58
Virginia Iron, Coal & Coke	12 mos.	8,409	..	*99,840	..
Walgreen Co.	12 mos.	3,149,541	2.10	2,832,206	1.87
Wesson Oil & Snowdrift Co.	3 mos.	313,466	0.04	925,706	1.00
York Ice Machinery Corp.	12 mos.	483,122	0.68	*185,077	*3.46

* Deficit.

F.W.D.A. Holds Merchandising Clinic

—Continued from page 5

action that would follow the dimunition and disappearance of defense or war support for a boom.

Cooperative Selling

The future of cooperative retailing groups calls more for expansion on the selling side than on the buying side, said Hector Lazo, executive vice-president of Cooperative Food Distributors of America. The speaker emphasized the redawning truth that the consumer is the biggest factor in business and urged vigorous endeavors to cut the cost lying between producer and consumer. He urged that full consideration be given in this respect to the net effect of cutting labor costs at the expense of further unemployment.

Mr. Lazo felt that the best method of satisfactorily serving the consumer would be to work for elevation of the average standard of living sacrificing at the top in order that the lower

S. C. James
F.W.D.A. President

strata might be raised. He showed the need that producers and distributors cooperate toward essential understanding of labor and consumers. It was his contention that the independent system of distribution, not the individual distributor, that was to be preserved for the national good, and he criticized the "independence" which is but persistence in inefficiency. Better far to apply a goodly measure of self-regulation, he said, than to court official control, even though the former necessitated the elimination of the irremedially inefficient and excessively costly.

Chain stores and other big systems deserve the preferences they get from manufacturers, Mr. Lazo said, because they give the latter full *quid pro quo*. He regretted to admit that individual retailers were not always entitled to similar credit. And he urged that all play ball fairly with manufacturers and give them what they pay for.

Retailer helps as business builders for wholesalers and manufacturers were discussed by Clyde Eddy, merchandising director for E. R. Squibb & Sons. He told how—and showed material useful in doing it—the wholesaler can help retailers to use nationally known merchandise to attract more customers and to expand unit sales; how they can be helped to do better local sales promoting; what can be gained by open displays; how retailers can be assisted by sales training of his employees and by utilizing efficient methods of controlling stocks and buying.

Scope of Antitrust Laws

Something of a disquieting influence was introduced by Gilbert H. Montague, well-known business-law counselor and barrister, in his analysis of application of State fair trade laws in the light of supreme court definitions of illegal concerted action. It was his opinion that, because of the inadequate and circumscribed language of fair trade laws the Federal Trade Commission or more particularly the Department of Justice might be constrained to attack under antitrust laws certain activities in connection with fair trade contracts.

Laches on the part of a manufacturer with respect to violations of his contract, the use of price-reducing combination deals, and lack of perfectly clean hands were some of the things that showed as warnings to Mr. Montague. He also pointed to the narrowness of the definition of prerequisite general class competitivity.

Mr. Montague's opinion also comprised a doubt of the right of others than the contracting manufacturer to sue under fair trade laws. Similarly he looked upon associated action to promote the purpose of fair trade laws or to bring violators to punishment. He drew an analogy between Portia and Thurman Arnold to emphasize his point that, while the intent of these laws might be valid, there was an open question of what could legally be done to effectuate it. He made the basic point that the Supreme Court of the United States had upheld fair trade laws as a protection for property rights in trademarks —not as means of fixing or maintaining prices.

The benefits for the druggist in cultivating the physicians of his community were related by T. H. Jones, salesmanager for the Kalak Water Company. He urged manufacturers, as well as retailers, to avoid in their sales promotion all antagonizing of physicians. His elemental advice to retailers was that they rededicate themselves to pharmacy; make their

William D. Barry
Chairman, F.W.D.A. Clinic

stores look—and smell—like drug stores; and bring their prescription departments out of back-room mystery and dirt.

A wealth of statistical data was presented by Johnson Rogers, of the Topics Publishing Company, to illustrate and support his point that the business and profit of a retail drug store could be increased by proper tying in with national sales promotion, by the use of efficient equipment, and by the providing of satisfactory service. He told manufacturers and wholesalers how they could likewise benefit by helping retailers to make proper use of the methods and means which he had described as proven business-builders.

Botanical Drugs

—Continued from page 56

Spices

Cassia.—Steady. Prices firm. Moderate activity.

Ginger.—African root small fraction higher at 7⅜c. to 7¾c. per pound. No other changes.

Nutmegs.—Small East Indian grinding item down to 13½c. to 14c. per pound. Others steady.

Paprika.—Price trend down. Bulgarian, 29½c. to 30c. per pound; Portuguese, extra fancy, 31c. to 32½c.; medium, 27c. to 28c.; Spanish, extra fancy, 38c. to 39c.; fancy, 36c. to 37c.; Algerian, 33c. to 34c.

Pepper.—Scarcity of red peppers expected. Sales of new crop Carolinas, August-October shipment, made at 11c. Japanese shaded to 20c. to 21c. Mombassas on easier side. Foreign chillies considered far too high.

Trading in black pepper futures on the New York Produce Exchange from February 1 to February 7, inclusive, comprised 87 contracts, a total of 2,923,200 pounds. Following is a price record for the week:—

	Cents per pound		
	High.	Low.	Close.
March	4.22	4.11	4.11@4.12
July	4.38	4.28	4.26@4.28
September	4.45	4.32	4.33@4.35
December	4.51	4.44	4.44@4.46

Pimento.—Spot Jamaica holding at 25¼c. to 25¾c. per pound. Mexican on spot at 10¼c. to 10¾c. Jamaica, prompt shipment, 25½c. to 26c. February also 25½c. to 26c.

Hopkins & Co. Adds Hernandez to Export Dep't

A. Veve Hernandez, recently in the import and export business, has been added to the export department of J. L. Hopkins & Co., botanical drug merchant, this city. Mr. Hernandez will work under Charles A. Lotz, manager of the export department. He is a graduate of the University of Rio Piedras, Puerto Rico.

Obituaries

Arthur F. Butler

Arthur F. Butler, managing director for R. W. Greeff & Co., Ltd., chemicals, London, died unexpectedly February 7, according to cables received by the parent company, R. W. Greeff & Co., this city. Mr. Butler had served the London house since 1901 and in addition to being one of the widest known and respected men in the British chemical industry, he also had an extensive acquaintance in the American industry. A wife and son survive.

Stuart J. Fuller

Stuart J. Fuller, who, as assistant chief of the Far Eastern division of the Department of State, in charge of matters relating to international cooperation to suppress the abuse of narcotic drugs, died February 2 after a long illness in Washington, D. C. He was sixty years of age. Mr. Fuller entered the Department of State in 1930 after twenty-four years in the Foreign Service. From 1932 to 1939 he was the United States representative in an expert and advisory capacity to sessions of the advisory committee of the League of Nations on traffic and opium and other dangerous drugs.

W. de C. Kessler

W. de C. Kessler, manager of the Montgomery, Ala., division for the American Agricultural Chemical Company, this city, died February 4 from pneumonia. He was seventy-six years of age.

Mr. Kessler became associated with the fertilizer industry in Baltimore while still a youth. In 1889 he went to Pensacola, Fla., as secretary-treasurer of the Goulding Fertilizer Company, a subsidiary of W. & H. M. Goulding, Ltd., Dublin. He went to Dublin nine years later for the purpose of designing a plant for the manufacture of double superphosphate at Pensacola, where this material was produced for the first time in the United States.

In 1907 he moved to Montgomery to become associated with the Goulding and Bigbee companies, which were purchased by the American Agricultural Chemical Company in 1911. From 1905 until 1906 he served as president of the Fertilizer Manufacturers Association, forerunner of the National Fertilizer Association.

Dr. George E. Vincent

Dr. George E. Vincent, president of the Rockefeller Foundation from 1917 until 1929, died February 1 in this city. He was seventy-six years old. As president of the foundation during the critical war years. Dr. Vincent directed the establishment here and abroad of hospitals for the wounded, the teaching of new surgical methods, the supplying of serums for hospitals treating war casualties and the establishment of facilities for special research in war medicine. Prior to his association with the Rockefeller Foundation he was president of the University of Minnesota.

Stanley L. Weil

Stanley Lee Weil, vice-president and treasurer of the Natural Products Refining Company, manufacturer of bichromates, this city, died in his home here February 1, after a week's illness. He was fifty-two years of age.

A native of New York, Mr. Weil was educated at Columbia University. In 1909 he joined with H. A. Goman in the formation of the Natural Products Refining Company. During the World War Mr. Weil served in Washington as a first lieutenant in the ordnance division. He was a member of the Chemists' Club, this city, and the City Athletic Club.

Surviving are his wife, a son, Stanley Weil, jr., and a brother, Arthur C. Weil.

Mrs. Elizabeth A. Almy, wife of Edward T. Almy, assistant chief engineer for the Sinclair Refining Company, this city, died February 3 at Glen Ridge, N. J. She was fifty years of age.

Joe L. Baker, Washington, D. C., representative for the Emerson Drug Company, Baltimore, and other prominent drug manufacturers, died February 2 of a heart attack at Chevy Chase, Md. He was fifty-seven years of age.

Thomas B. Baker, director of the traffic department of E. I. duPont de Nemours & Co., Wilmington, died unexpectedly February 5. He was fifty-three years of age.

Auguste Behal, French chemist and former president of the Academy of Medicine, died February 4 at Mennecy, France. His age was eighty-one.

Frederick Van Dyke Cruser, chief chemical engineer for the Diamond Match Company for thirty years, died February 2 at Oswego, N. Y. He was sixty-one years of age.

James A. Donan, advertising and sales promotion manager for the Standard Oil Company of New Jersey and affiliated companies, died February 3 of a heart attack in this city. He would have been forty-five years of age on February 5.

Edward J. Dunn, secretary and part owner of the W. H. S. Lloyd Company, wallpaper importer, this city, died February 5 at Yonkers after a three-year illness. He was sixty-three years of age.

Archibald O. Hevener, former assistant division superintendent for McKesson & Robbins, Inc., this city, died February 5 at Newark, N. J., after a week's illness. He was eighty-three years of age.

Frank A. Jackson, former president of the Rhode Island College of Pharmacy, died in Woonsocket, R. I., February 3. He was eighty-nine years of age.

William T. Morgan, chief metallurgist for the Taylor Instrument Company, Rochester, N. Y., died February 1 of a heart attack. He was forty-five years of age.

Rear Admiral C. J. Peoples, regarded for many years as the Navy's expert on purchase and supplies, died in Washington February 3. He was sixty-four years of age.

Charles W. Leng, former curator of the Brooklyn Entomological Association and president of the New York Entomological Society, died last week at his Staten Island home. He was eighty-one years of age.

Henry Reubel, head of Kroder-Reubel Company, dealers in bronze and other metals, Brooklyn, died January 26 of a heart attack at his home in this city. He was seventy-seven.

J. H. Riddell, father of J. R. Riddell, a vice-president of the Standard Oil Company of New Jersey, died January 26 in his home in Lepanto, Ark. He was seventy-nine years old.

Henry A. Vogt, pharmaceutical chemist who owned a chemical and bacteriological laboratory in White Plains, N. Y., died February 5 at his home there. He was seventy-three.

Industrial Uses of Chemicals and Related Materials

(Formerly Styled "Where You Can Sell")

Producers' Guide to New Markets Technical Information for Processors

Fully protected by copyright

Seven-hundred-thirty-fifth Recapitulative Instalment

(Parenthetical references are to the numbers of patents in the United States or other countries, as designated)

Betachlorovinyldichloroarsin

(Lewisite, MI)

Military

As a military poison gas

Bis-(2-ethylbenzothiazole-1)-nonamethincyanin Iodide

Photographic

Claimed (Brit. 485623 and 503337) as—
Valuable light filter
Sensitizer (Brit. 485623 and 503337) in—
Photographic emulsions to light of wavelength greater than 10,000

1:3'-Carboxyphenyl-3-undecyl-5-pyrazolone

Photographic

Nondiffusible color-former (Brit. 502665) in—
Color photography

Guanidin Carbonate

(Carbonate de Guanidine, Carbonate Guanidinique, Carbonate de Uree Iminique, Kohlensauresiminoharnstoff)

Chemical

Organic alkali offering the following properties—
Approximately the same strength as sodium carbonate
Nonhygroscopic
Stable on long storage
Strong base
Strong emulsifier
Reactant in—
Organic syntheses
Starting point in making newly suggested chemicals, such as—
Guanidin alphahydroxyisobutyrate
Guanidin benzenesulphonate
Guanidin borate
Guanidin D-camphorate
Guanidin cinnamate
Guanidin crotonate
Guanidin phenylacetate
Guanidin phenylanthranilate
Guanidin phenyldiothiocarbamate
Guanidin salicylate
Guanidin silicofluoride

Cosmetic

Suggested as emulsifying agent in making—
Cosmetic creams

Miscellaneous

Suggested for use as—
Emulsifying agent
Suggested for use in making—
Emulsifying agents

Photographic

Addition agent to—
Solutions used in making blueprint paper (claim is made that blueprint coatings with improved speed and latitude can be obtained)

Resins

Starting point (U.S. 1658597) in making—
Guanidin-formaldehyde resins
Guanidin-urea-formaldehyde resins

Soap

As an emulsifier
As a base
Starting point in making—
Detergents
Dry-cleaning soaps
Emulsifying agents
Soaps

Hydroxypentadecylic Acid

Chemical

Reactant in—
Organic syntheses
Starting point (Brit. 416631 in making—
Nitriles, with ammonia

Isobutyldodecylamide

Insecticide

Toxic agent (Brit. 503490 and 503507) in—
Insecticidal preparations

Isobutyl-Mercury Nitrate

Rubber

Preservative (Brit. 499578) for—
Latex

Monododecyl Suberate

Lubricant

Claimed (Brit. 500222) as—
Cutting oil base
High-pressure, thin-film lubricant for incorporation in suitable vehicles (hydrocarbon oils or greases)

Morpholinethanol

Chemical

Suggested as intermediate in making—
Emulsifying agents
Pharmaceutical chemicals
Textile auxiliaries

Dye

Suggested as intermediate in making various dyestuffs

Nickel Sulphate

(Niccoli Sulphas, Nickelsulfat, Schwefelsauresnickel, Solfato di Nickelio, Solfato de Niquel, Sulphate de Nickel, Sulphate Nickelique)

Analysis

Reagent in—
Analytical processes involving control and research in science and industry
Reagent in testing for—
Albumoses (Fittipaldi; Gnezda)
Glucose (Duyk)

Building Construction

Ingredient of—
Waterproofings
Waterproofings (special) (U.S. 1256324)
Process material (U.S. 1364587) in—
Coating trass
Waterproofing agent for—
Cement (U.S. 1364587)
Concrete (U.S. 1364587)
Gypsum (U.S. 1256324)
Mortar (U.S. 1364587)

Cellulose Products

Process material (U.S. 1279200) in making—
Alkali cellulose

Ceramic

Pigment for—
Decorative effects

Chemical

Carrier (U.S. 1455448) of—
Oxygen
Determiner (U.S. 1513558) of—
Hydrogenation concentration
Purifying agent (with copper sulphate) (U.S. 1908545) for—
"Bleed water" from mining of sulphur by the Frasch process (operated in the presence of, and assisted by, diffused aeration)
Starting point in making—
Catalysts (U.S. 1151003, 1156068, 1165956, 1172062, 1174245, 1226945, 1232830, 1299565, 1299641, 1314839, 1314840, 1314841, 1314842, 1320039, 1327396, 1329322, 1423978, 1426517, 1426629, 1450174, 1451113, 1482740, 1497815, 1511520, 1512897, and 1519088)
Nickel carbonate (special) (U.S. 1289072, 1427037, and 1432668)
Nickel chloride (special) (U.S. 1247413)
Nickel formate (special) (U.S. 1390686 and 1452478)
Nickel hydroxide (special) (U.S. 1167484 and 1497815)
Nickel hypophosphite (special) (U.S. 1299641)
Nickel oxide (special) (U.S. 1193734 and 1195211)
Nickel-ammonium sulphate (double salts)
Oxidation catalyst (U.S. 1345323)

Dye

Catalyst (U.S. 1455448) in making—
Anthraquinone

Electrical

Coating agent for—
Battery electrode (in conjunction with nickel hydroxide) (U.S. 1402751)
Electric lamp (silvering) (U.S. 1486804)
Phonograph record master discs U.S. 1513120)
Ingredient of—
Electrolytes used in making magnetic nickel-cobalt-iron alloys used in electrical (sound) reproduction processes (U.S. 1920964)
Electrolytes used in plating master records for phonographic reproduction purposes (U.S. 1513120)

Fats and Oils

Starting point in making—
Catalysts used in the hydrogenation of—

Animal oils	Polymerized oils
Fats	Unsaturated oils
Fish oils	Vegetable oils
Oxidized oils	

Starting point (special) in making—
Hydrogenation catalysts (U.S. 1151003, 1156068, 1172062, 1174245, 1450174, 1482740, 1511520, 1519088, and others) (see also catalyst patents under "Chemical")

Glass

Pigment (U.S. 1467030) in making—
Glass

Metallurgical

Bleaching agent for—
Brass Zinc
Electrolyte in—
Nickel-plating baths
Electrolyte in making—
Miscellaneous nickel platings (U.S. 1260661, 1370646, 1371414, 1373837, 1395827, 1379050, 1397785, 1404156, 1417464, 1425184, 1504206, 1504207, 1513119, and 1513120)
Nickel platings on aluminum (U.S. 1147718)
Ingredient of—
Aluminum soldering composition (U.S. 1402644)
Electrolyte for etching brass, copper, steel, and zinc (U.S. 1314839, 1314840, 1314841, and 1314842)
Electrolytes (miscellaneous) (U.S. 1291310, 1379089, and 1414423)
Tin-plating electrolyte (U.S. 1466126)
Process material in—
Copper cementation (U.S. 1128313 and 1128316)
Reagent (U.S. 1128314) for—
Separating copper from nickel

Military

Ingredient of—
Gas absorbent (U.S. 1422211)
Hopcalite (U.S. 1345323)

Miscellaneous

Ingredient of—
Etching solution (U.S. 1362159)
Modifying agent for—
Zinc surfaces subjected to nitrocellulose coatings (used to promote adherence and retard breakdown)

Paint, Varnish, and Lacquer

Pigment in—
Paints, varnishes, enamels, and other products

Pharmaceutical

In compounding and dispensing practice

Photographic

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